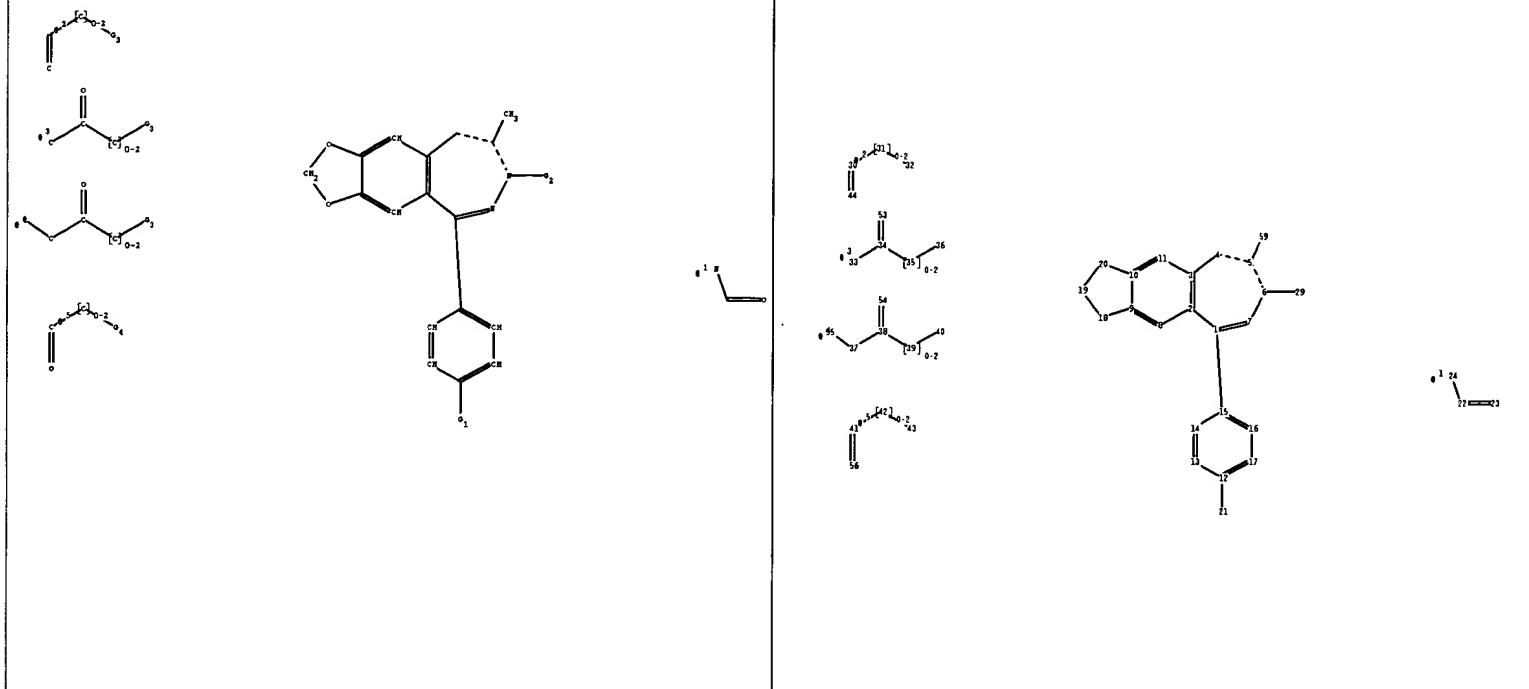


09/485,441



chain nodes :

21 22 23 24 29 30 31 32 33 34 35 36 37 38 39 40 41 42
43 44 53 54 55 56 59

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

chain bonds :

1-15 5-59 6-29 12-21 22-23 22-24 30-31 30-44 31-32 33-34 34-35
34-53 35-36 37-38 37-55 38-39 38-54 39-40 41-42 41-56 42-43

ring bonds :

1-2 1-7 2-3 2-8 3-4 3-11 4-5 5-6 6-7 8-9 9-10 9-18 10-11
10-20 12-13 12-17 13-14 14-15 15-16 16-17 18-19 19-20

exact/norm bonds :

1-2 1-7 3-4 4-5 5-6 6-7 6-29 9-18 10-20 12-21 18-19 19-20
22-23 22-24 31-32 34-53 35-36 38-54 39-40 41-56 42-43

exact bonds :

1-15 5-59 30-31 30-44 33-34 34-35 37-38 37-55 38-39 41-42

normalized bonds :

2-3 2-8 3-11 8-9 9-10 10-11 12-13 12-17 13-14 14-15 15-16
16-17

isolated ring systems :

containing 1 : 12 :

G1:NH2,NO2, [*1]

G2:[*2], [*3], [*4], [*5]

G3:N,X,Hy

G4:N,X,Hy,O

Match level :

1:Atom	2:Atom	3:Atom	4:Atom	5:Atom	6:Atom	7:Atom	8:Atom	9:Atom
10:Atom	11:Atom	12:Atom	13:Atom	14:Atom	15:Atom	16:Atom	17:Atom	
18:Atom	19:Atom	20:Atom	21:CLASS	22:CLASS	23:CLASS	24:CLASS		
29:CLASS	30:CLASS	31:CLASS	32:CLASS	33:CLASS	34:CLASS	35:CLASS		
36:CLASS	37:CLASS	38:CLASS	39:CLASS	40:CLASS	41:CLASS	42:CLASS		
43:CLASS	44:CLASS	53:CLASS	54:CLASS	55:CLASS	56:CLASS	59:CLASS		

09/485,441

=> d his

(FILE 'HOME' ENTERED AT 18:33:14 ON 23 APR 2002)

FILE 'REGISTRY' ENTERED AT 18:33:19 ON 23 APR 2002

L1 SCREEN 963
L2 STRUCTURE UPLOADED
L3 QUE L2 AND L1
L4 10 S L3
L5 136 S L3 SSS FUL

FILE 'CAPLUS' ENTERED AT 18:34:43 ON 23 APR 2002

L6 52 S L5

FILE 'CAOLD' ENTERED AT 18:34:50 ON 23 APR 2002

L7 0 S L5

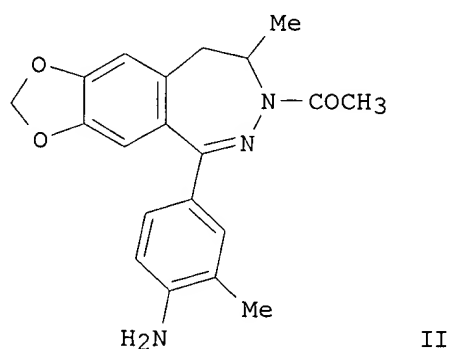
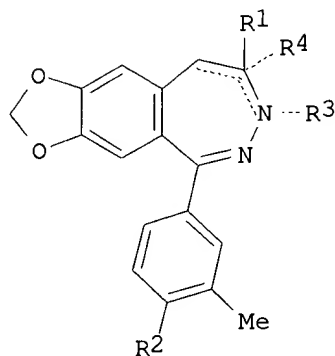
FILE 'CAPLUS' ENTERED AT 18:35:24 ON 23 APR 2002

L8 35 S L6 AND JOURNAL/DT
L9 0 S L8 AND 2002/SO
L10 1 S L8 AND 2001/SO
L11 4 S L8 AND 2000/SO
L12 5 S L8 AND 1999/SO
L13 10 S L10 OR L11 OR L12
L14 42 S L6 NOT L13

=> d bib abs hitstr l14 1-42

L14 ANSWER 1 OF 42 CAPLUS COPYRIGHT 2002 ACS
 AN 2001:50649 CAPLUS
 DN 134:100896
 TI Preparation of new 1,3-dioxolo[4,5-h][2,3]benzodiazepines as neuroprotective agents
 IN Greff, Zoltan; Szabo, Geza; Barkoczy, Jozsef; Ratkai, Zoltan; Blasko, Gabor; Simig, Gyula; Gigler, Gabor; Martonne Marko, Bernadett; Levay, Gyorgy; Tihanyi, Karoly; Egyed, Andras; Simo, Annamaria
 PA Egis Gyogyszergyar Rt., Hung.
 SO PCT Int. Appl., 80 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001004122	A2	20010118	WO 2000-HU74	20000704
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	HU 1999-2291	A	19990707		
OS	MARPAT 134:100896				
GI					



AB The title compds. [I; R1 = Me, CHO, CO2H, etc.; R2 = NO2, NH2; R3 = H, alkanoyl, CONR7R8 (wherein R7, R8 = H, alkoxy, alkyl, cycloalkyl; NR7R8 = (un)satd. 5-6 membered heterocyclic ring optionally contg. one or more further N, S and/or O atom(s)); R4 = H, alkyl; the dotted lines have the following meaning: if R3 and R4 are not present, the bond between positions C8 and C9 is a single bond and the bond between positions C8 and N7 is a double bond; if R3 and R4 are present, the bonds between positions C8 and C9 and between position C8 and N7 are single bonds; and if R3 is present and R4 is missing, the bond between positions C8 and C9 is a

double bond and the bond between positions C8 and N7 is a single bond] which have neuroprotective effect, were prepd. E.g., a multi-step synthesis of 1,3-dioxolo[4,5-h][2,3]benzodiazepine II which showed PD50 (the dose that prolonged survival by 50%) of 5.4 mg/kg in MgCl₂-induced global cerebral ischemia in mice (i.p.), was given.

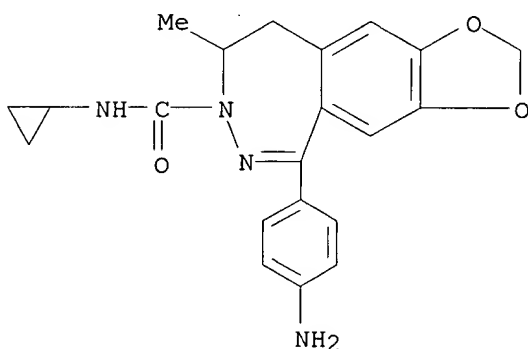
IT 220669-66-9 220669-68-1 220670-32-6

RL: BSU (Biological study, unclassified); MSC (Miscellaneous); BIOL (Biological study)

(prepn. of new 1,3-dioxolo[4,5-h][2,3]benzodiazepines as neuroprotective agents)

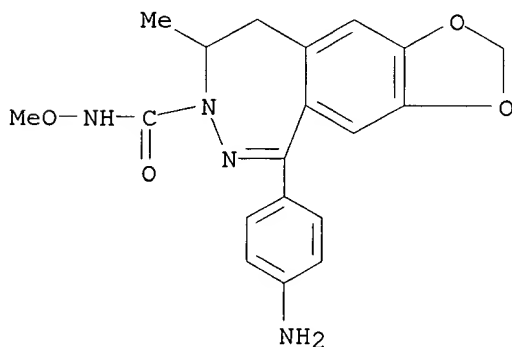
RN 220669-66-9 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-N-cyclopropyl-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)



RN 220669-68-1 CAPLUS

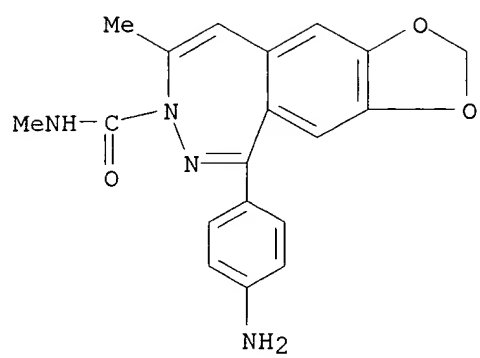
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N-methoxy-8-methyl- (9CI) (CA INDEX NAME)



RN 220670-32-6 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-N,8-dimethyl- (9CI) (CA INDEX NAME)

09/485,441



L14 ANSWER 2 OF 42 CAPLUS COPYRIGHT 2002 ACS

AN 2001:25774 CAPLUS

DN 134:95505

TI Decoy peptides for treatment of neurotoxicity in Alzheimer's disease caused by .beta. amyloid peptides

IN Ingram, Vernon M.; Blanchard, Barbara J.

PA Massachusetts Institute of Technology, USA

SO U.S., 35 pp., Cont.-in-part of U.S. Ser. No. 960,188, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6172043	B1	20010109	US 1998-5215	19980109
PRAI	US 1997-35847P	P	19970110		
	US 1997-960188	B2	19971029		

AB The invention involves identification of a mechanism of .beta.-amyloid peptide cytotoxicity, which enables treatment of conditions caused by .beta.-amyloid peptide aggregates by administration of compds. which antagonize the mechanism of cytotoxicity. The invention includes the identification and isolation of compds. which can antagonize the aggregation of .beta.-amyloid peptides and the neurotoxic effects of such aggregates. The compds. include isolated peptides which were selected for their ability to form a complex with a .beta.-amyloid peptide, or are derived from peptides so selected. Methods for treating conditions resulting from neurotoxic .beta.-amyloid peptide aggregates and pharmaceutical preps. are provided. Also provided are methods for selecting addnl. compds. which can antagonize the aggregation of .beta.-amyloid peptides and the neurotoxic effects of such aggregates.

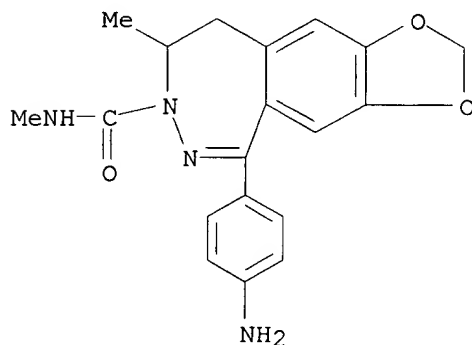
IT 143692-18-6

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(decoy peptides for treatment of neurotoxicity in Alzheimer's disease caused by .beta. amyloid peptides)

RN 143692-18-6 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)



RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

~~184~~ ANSWER 3 OF 42 CAPLUS COPYRIGHT 2002 ACS

AN 2000:741905 CAPLUS

DN 133:305610

TI Treatment of neurological disorders with nitric oxide synthase inhibitors and excitatory amino receptor modulators

IN O'Neill, Michael John

PA Eli Lilly and Company Limited, UK

SO PCT Int. Appl., 22 pp.

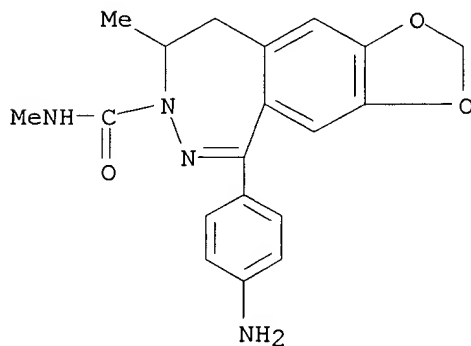
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000061126	A2	20001019	WO 2000-GB1284	20000406
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	GB 1999-8175	A	19990409		
AB	The present invention relates to a method of treating a neurol. disorder comprising administering to a patient an effective amt. of a nitric oxide synthase inhibitor in combination with an effective amt. of an excitatory amino receptor modulator. Combination of 2.5 mg/kg Mk-801, i.p., and 25 mg/kg ARL17477, i.p., had a synergistic degree of neuroprotection (78%) in cerebral ischemia induced in gerbils.				
IT	143692-18-6 , Ly300168 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (treatment of neurol. disorders with nitric oxide synthase inhibitors and excitatory amino receptor modulators)				
RN	143692-18-6 CAPLUS				
CN	7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)				



~~IN~~ ANSWER 4 OF 42 CAPLUS COPYRIGHT 2002 ACS
 AN 2000:666600 CAPLUS
 DN 133:247292
 TI Amyotrophic lateral sclerosis treatment with a combination of riluzole and an AMPA receptor antagonist
 IN Bohme, Andrees; Boireau, Alain; Canton, Thierry; Pratt, Jeremy; Stutzmann, Jean-Marie
 PA Aventis Pharma S.A., Fr.
 SO PCT Int. Appl., 115 pp.
 CODEN: PIXXD2
 DT Patent
 LA French
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000054772	A1	20000921	WO 2000-FR590	20000310
	W:			AE, AL, AU, BA, BB, BG, BR, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
	RW:			GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	
	FR 2790670	A1	20000915	FR 1999-3100	19990312
	EP 1161238	A1	20011212	EP 2000-910920	20000310
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO	
PRAI	FR 1999-3100	A	19990312		
	US 1999-129318P	P	19990414		
	WO 2000-FR590	W	20000310		

OS MARPAT 133:247292

AB The invention discloses the prevention and/or treatment of amyotrophic lateral sclerosis with a combination of riluzole and one or several AMPA receptor antagonists, as well as combinations of these compds. and pharmaceutical compns. contg. them.

IT **143692-18-6**, LY 300168

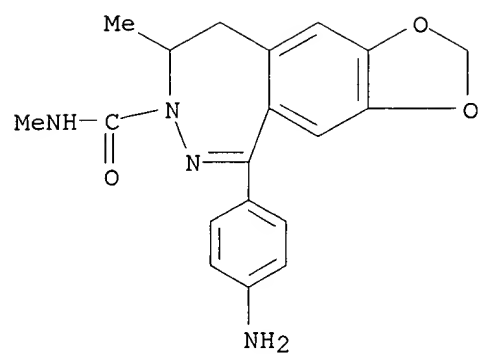
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(riluzole-AMPA receptor antagonist combination for treatment of amyotrophic lateral sclerosis)

RN 143692-18-6 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)

09/485,441



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

~~LA~~ 4 ANSWER 5 OF 42 CAPLUS COPYRIGHT 2002 ACS

~~IN~~ 2000:645836 CAPLUS

DN 133:238027

TI Preparation of 1,3-dioxolo[4,5-h][2,3]benzodiazepines for the treatment and prophylaxis of diseases related to the inhibition of lipid peroxidation

IN Raczne Bajnogl, Judit; Szenasi, Gabor; Gigler, Gabor; Levay, Gyorgy; Szabo, Geza; Tihanyi, Karoly; Egyed, Andras; Barkoczy, Jozsef; Ratkai, Zoltan; Greff, Zoltan; Schneider, Geza; Simig, Gyula; Balazs, Laszlo; Doman, Imre; Kotay, Nagy Peter; Seres, Peter

PA Egis Gyogyszergyar Rt., Hung.

SO PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DT Patent

LA English

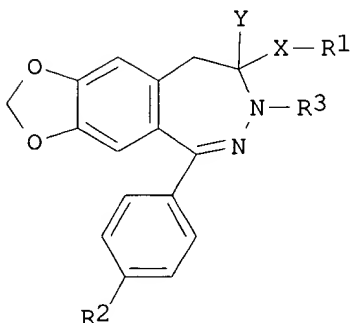
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000053166	A2	20000914	WO 2000-HU11	20000215
	WO 2000053166	A3	20001221		
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRAI HU 1999-354 A 19990215

OS MARPAT 133:238027

GI



AB The title compds. [I; X = CO, CH₂; R₁ = H, OH, alkoxy, etc.; X together with R₁ forms CN, tetrazolyl, CHNOH, COR₆ (wherein R₆ = OH, alkoxy, phenoxy, etc.); R₂ = NO₂, NH₂, NHOH, alkanoylamino; R₃ = H, alkyl, haloalkyl, etc.; Y = H, Me; Y together with R₃ forms a bond between C atom in position 8 and N atom in position 7], useful for the treatment or prophylaxis of diseases and states related to increased (pathol.) lipid peroxidn., were prepd. E.g., a multi-step synthesis of I [XR₁ = CN; Y = Me; R₂ = NH₂; R₃ = COCF₃] which showed 97% lipid peroxidn. inhibition at

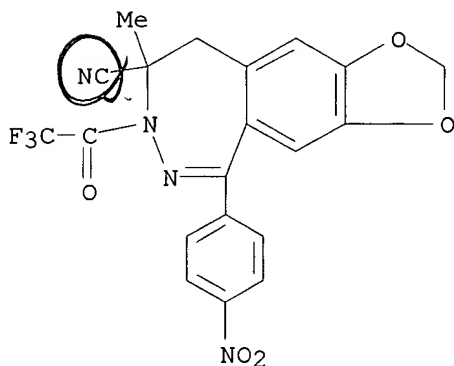
10-5 M, was given.

IT 220725-70-2P 220725-82-6P 220725-86-0P
293290-66-1P

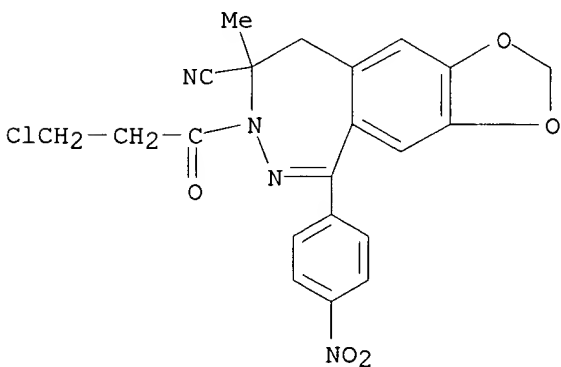
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of 1,3-dioxolo[4,5-h][2,3]benzodiazepines for the treatment and prophylaxis of diseases related to the inhibition of lipid peroxidn.)

RN 220725-70-2 CAPLUS

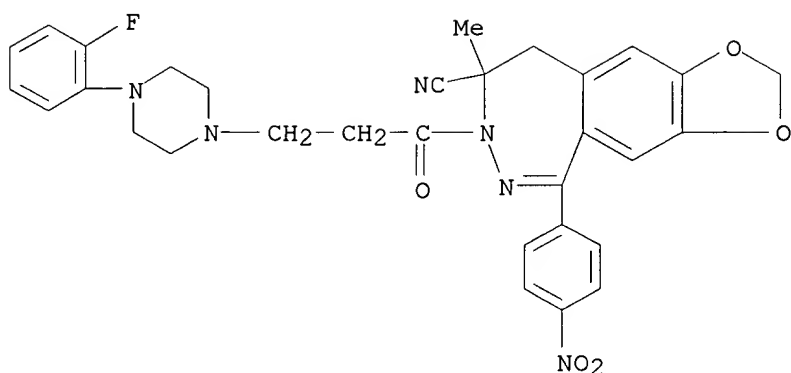
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
8,9-dihydro-8-methyl-5-(4-nitrophenyl)-7-(trifluoroacetyl)- (9CI) (CA INDEX NAME)

RN 220725-82-6 CAPLUS

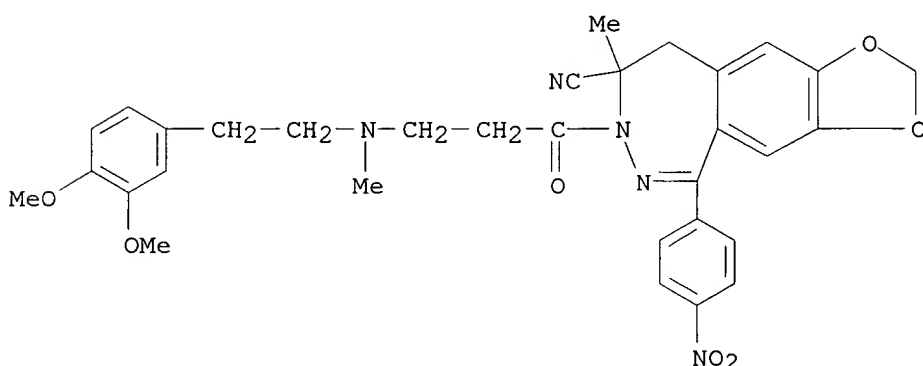
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
7-(3-chloro-1-oxopropyl)-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI)
(CA INDEX NAME)

RN 220725-86-0 CAPLUS

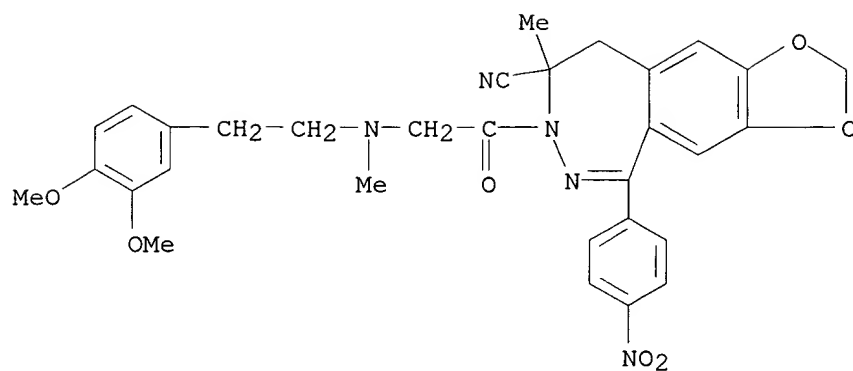
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
7-[3-[4-(2-fluorophenyl)-1-piperazinyl]-1-oxopropyl]-8,9-dihydro-8-methyl-
5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 293290-66-1 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
 7-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]-1-oxopropyl]-8,9-dihydro-
 8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

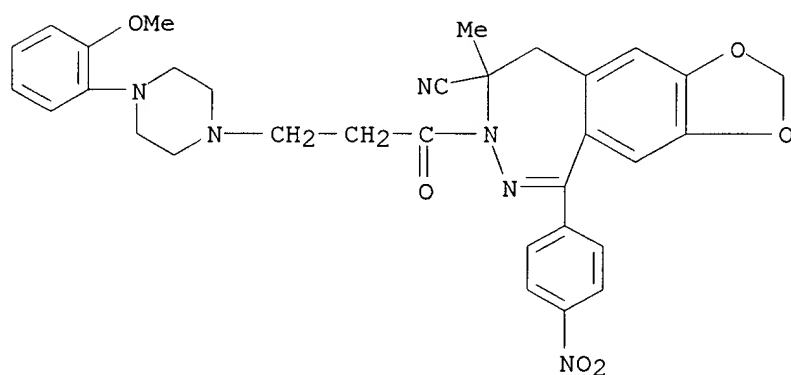


IT 220725-81-5P 220725-83-7P 220725-85-9P
 220725-96-2P 220725-97-3P 220726-02-3P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of 1,3-dioxolo[4,5-h][2,3]benzodiazepines for the treatment and
 prophylaxis of diseases related to the inhibition of lipid peroxidn.)
 RN 220725-81-5 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
 7-[[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]acetyl]-8,9-dihydro-8-methyl-
 5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



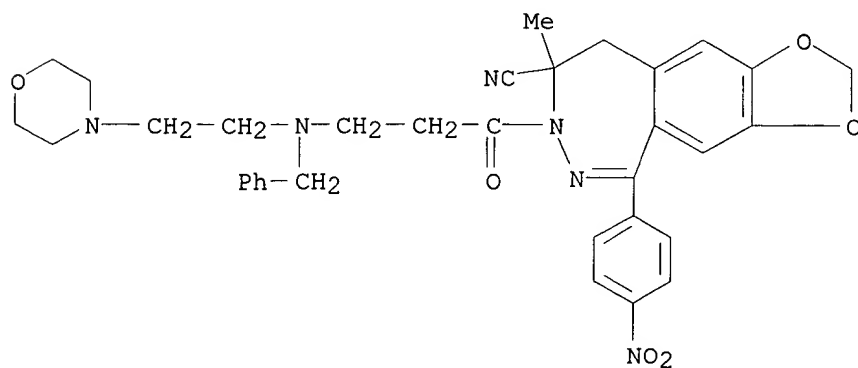
RN 220725-83-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
 8,9-dihydro-7-[3-[4-(2-methoxyphenyl)-1-piperazinyl]-1-oxopropyl]-8-methyl-
 5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 220725-85-9 CAPLUS

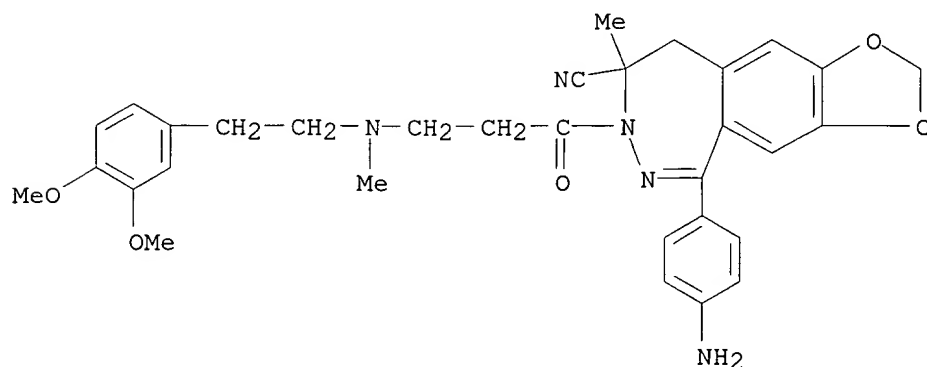
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
 8,9-dihydro-8-methyl-7-[3-[[2-(4-morpholinyl)ethyl](phenylmethyl)amino]-1-oxopropyl]-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



09/485,441

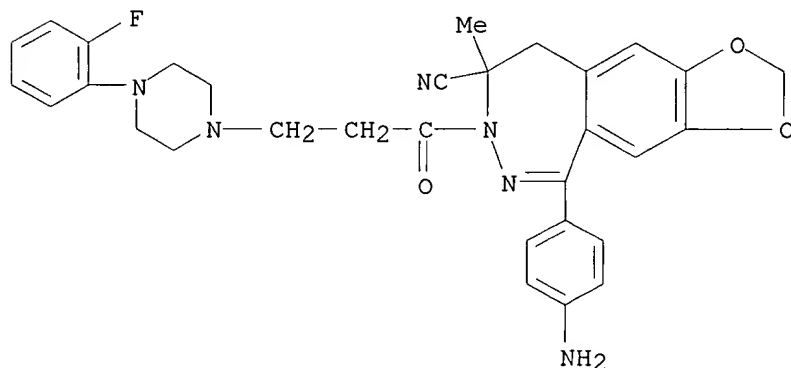
RN 220725-96-2 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
5-(4-aminophenyl)-7-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]-1-oxopropyl]-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)



RN 220725-97-3 CAPLUS

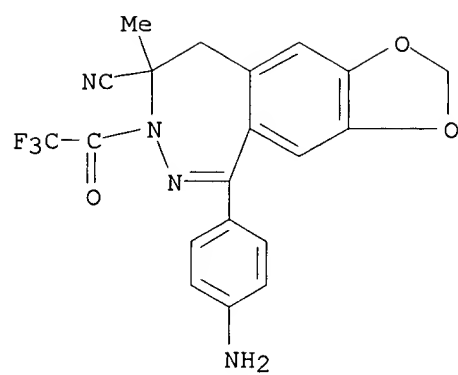
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
5-(4-aminophenyl)-7-[3-[4-(2-fluorophenyl)-1-piperazinyl]-1-oxopropyl]-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)



RN 220726-02-3 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-(trifluoroacetyl)- (9CI) (CA INDEX NAME)





L14 ANSWER 6 OF 42 CAPLUS COPYRIGHT 2002 ACS

AN 2000:351162 CAPLUS

DN 133:790

TI New use of glutamate antagonists for the treatment of cancer

IN Ikonomidou, Hrissanthi

PA Germany

SO Eur. Pat. Appl., 21 pp.

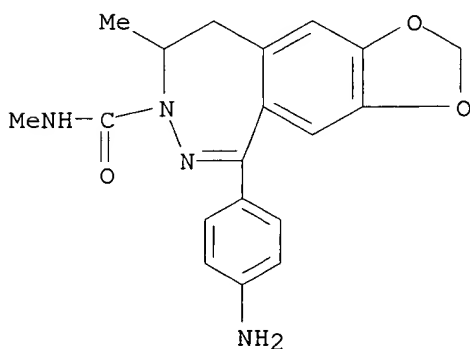
CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1002535	A1	20000524	EP 1998-250380	19981028
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	AU 9964750	A1	20000515	AU 1999-64750	19991022
	EP 1124553	A1	20010822	EP 1999-952622	19991022
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	EP 1998-250380	A	19981028		
	WO 1999-EP8004	W	19991022		
AB	New therapies can be devised based upon a demonstration of the role of glutamate in the pathogenesis of cancer. Inhibitors of the interaction of glutamate with the AMPA, kainate, or NMDA receptor complexes are likely to be useful in treating cancer and can be formulated as pharmaceutical compns. They can be identified by appropriate screens.				
IT	143692-48-2 , GYKI 53655				
	RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)				
	(glutamate antagonists for cancer treatment)				
RN	143692-48-2 CAPLUS				
CN	7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)				



HCl

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 7 OF 42 CAPLUS COPYRIGHT 2002 ACS

AN 1999:126904 CAPLUS

DN 130:196675

TI Preparation of 1,3-dioxolo[4,5-h][2,3]benzodiazepines as AMPA/kainate receptor inhibitors

IN Barkoczy, Jozsef; Cselenyak, Judit; Ratkai, Zoltan; Simig, Gyula; Balazs, Laszlo; Doman, Imre; Kotay Nagy, Peter; Greff, Zoltan; Seres, Peter; Szabo, Geza; Gacsalyi, Istvan; Gigler, Gabor; Gyertyan, Istvan; Levay, Gyorgy; Kovacs, Attila; Simo, Annamaria; Szabados, Tamas; Egyed, Andras; Vegh, Miklos; Tihanyi, Karoly

PA Egis Gyogyszergyar Rt., Hung.

SO PCT Int. Appl., 139 pp.

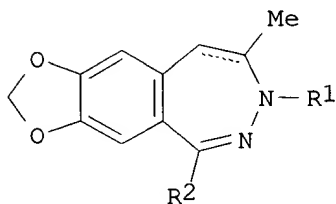
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9907708	A1	19990218	WO 1998-HU76	19980807
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9888182	A1	19990301	AU 1998-88182	19980807
EP 1015457	A1	20000705	EP 1998-939782	19980807
R: AT, BE, CH, DE, DK, ES, GB, GR, LI, NL, SE, PT, SI, LT, LV, FI, RO				
JP 2001512731	T2	20010828	JP 2000-506211	19980807
NO 2000000654	A	20000410	NO 2000-654	20000209
PRAI HU 1997-1382	A	19970812		
HU 1997-1383	A	19970812		
WO 1998-HU76	W	19980807		
OS MARPAT 130:196675				
GI				



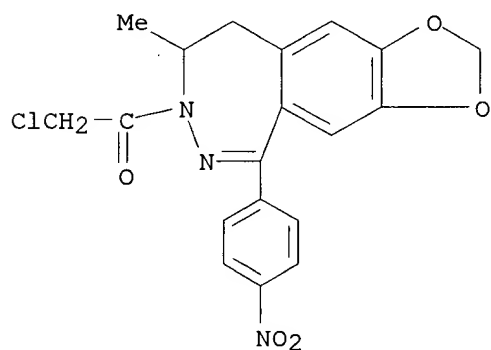
AB Title compds. [I; dashed line = null and R1 = (CH2)_nCO(CH2)_mR; R = halo, NR3R4, pyridinyl; R3,R4 = H, NH2, cycloalkyl, alkoxy, Ph, etc.; NR3R4 = (un)satd. heterocyclyl; dashed line = bond and R1 = CO(CH2)_pR6; R6 = halo, NR7R8, alkoxy, phenoxy, etc.; R7,R8 = H, (cyclo)alkyl, guanyl, etc.; R7R8 = atoms to complete a ring; R2 = C6H4R5-4; R5 = NO2, NH2, alkanoylamino; m,n,p = 0-2] were prepd. Thus, I [R2 = C6H4(NO2)-4, dashed line = bond] (II; R1 = H) was condensed with 1,1'-carbonyldiimidazole and the product condensed with H2NCH2CH2R (R = morpholino). to give II (R1 = CONHCH2CH2R, R = morpholino). Data for biol. activity of I were given.

IT 173087-61-1P 220669-48-7P 220669-49-8P
 220669-51-2P 220669-52-3P 220669-53-4P
 220669-54-5P 220669-56-7P 220669-57-8P
 220669-58-9P 220669-60-3P 220669-62-5P
 220669-63-6P 220669-64-7P 220669-65-8P
 220669-66-9P 220669-68-1P 220669-70-5P
 220669-71-6P 220669-72-7P 220669-74-9P
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 220669-86-3P 220669-87-4P 220669-90-9P
 220669-92-1P 220669-95-4P 220669-96-5P
 220669-98-7P 220670-01-9P 220670-03-1P
 220670-06-4P 220670-07-5P 220670-08-6P
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 220670-24-6P 220670-25-7P 220670-27-9P
 220670-28-0P 220670-29-1P 220670-31-5P
 220670-32-6P 220670-33-7P 220670-34-8P
 220670-36-0P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of 1,3-dioxolo[4,5-h][2,3]benzodiazepines as AMPA/kainate receptor inhibitors)

RN 173087-61-1 CAPLUS

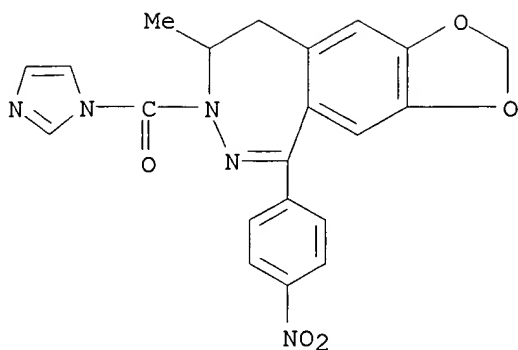
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(chloroacetyl)-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 220669-48-7 CAPLUS

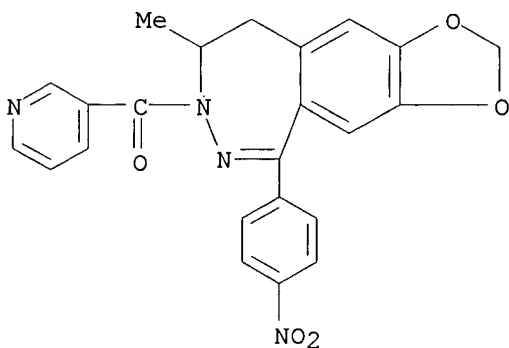
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-7-(1H-imidazol-1-ylcarbonyl)-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

09/485,441



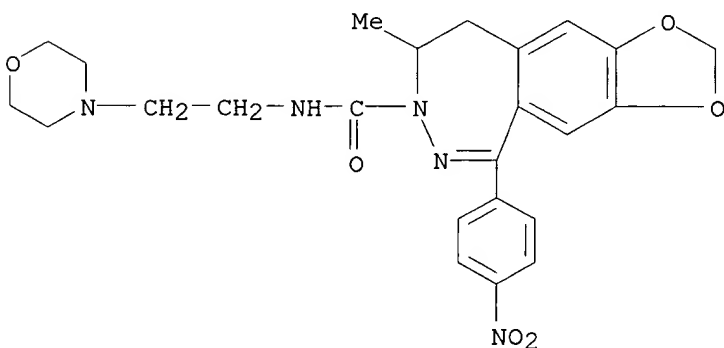
RN 220669-49-8 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-8-methyl-5-(4-nitrophenyl)-7-(3-pyridinylcarbonyl)- (9CI) (CA INDEX NAME)



RN 220669-51-2 CAPLUS

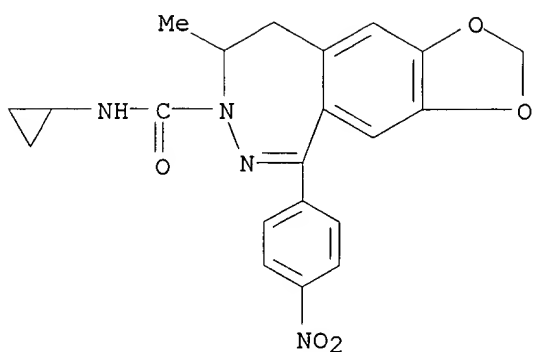
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 8,9-dihydro-8-methyl-N-[2-(4-morpholinyl)ethyl]-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



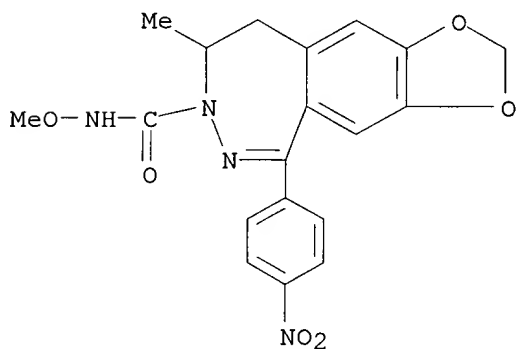
RN 220669-52-3 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, N-cyclopropyl-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

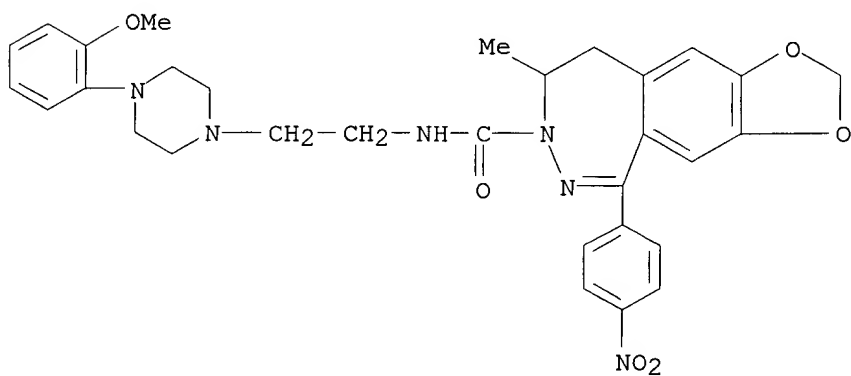
09/485,441



RN 220669-53-4 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
8,9-dihydro-N-methoxy-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



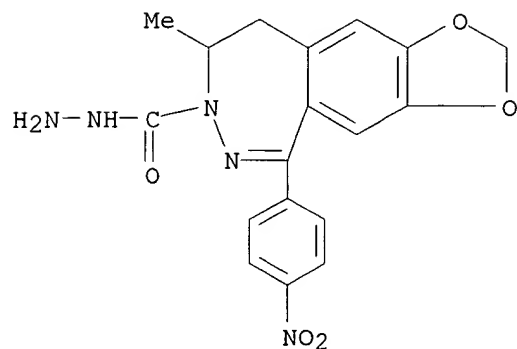
RN 220669-54-5 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
8,9-dihydro-N-[2-[4-(2-methoxyphenyl)-1-piperazinyl]ethyl]-8-methyl-5-(4-
nitrophenyl)- (9CI) (CA INDEX NAME)



RN 220669-56-7 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxylic acid,

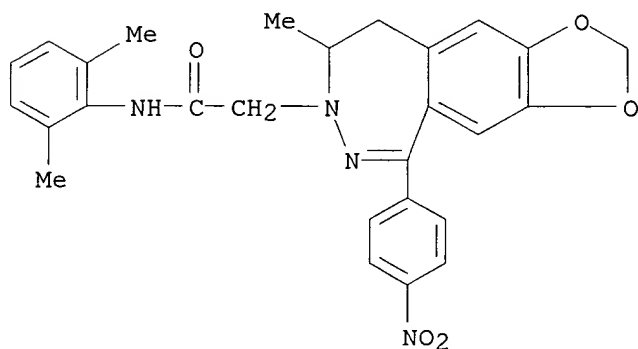
09/485,441

8,9-dihydro-8-methyl-5-(4-nitrophenyl)-, hydrazide (9CI) (CA INDEX NAME)



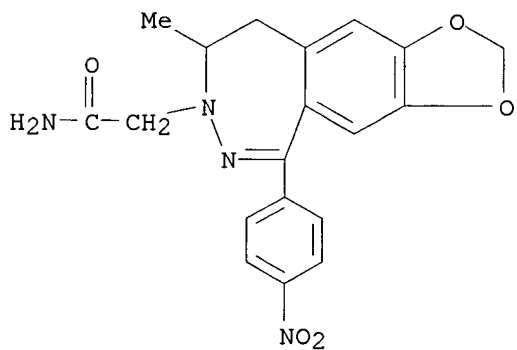
RN 220669-57-8 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-acetamide, N-(2,6-dimethylphenyl)-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 220669-58-9 CAPLUS

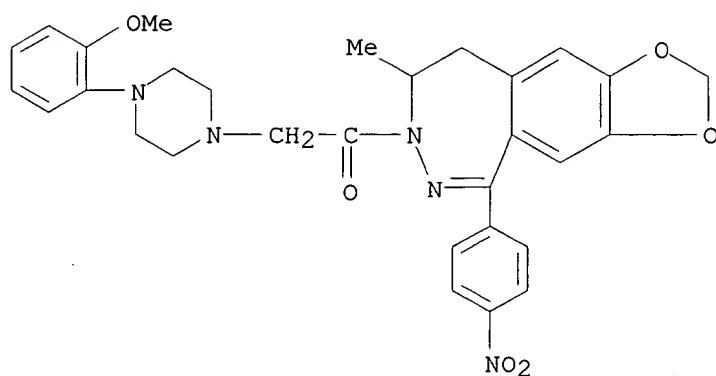
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-acetamide, 8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 220669-60-3 CAPLUS

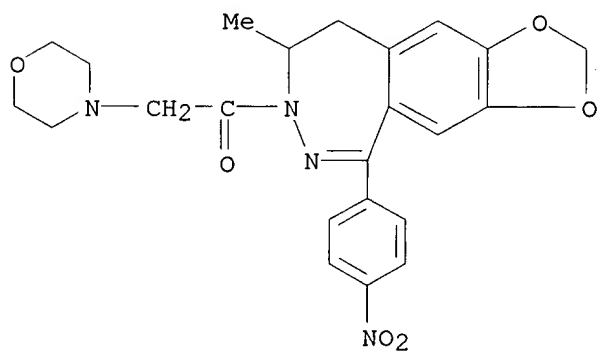
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-7-[[4-(2-

methoxyphenyl)-1-piperazinyl]acetyl]-8-methyl-5-(4-nitrophenyl)- (9CI)
(CA INDEX NAME)



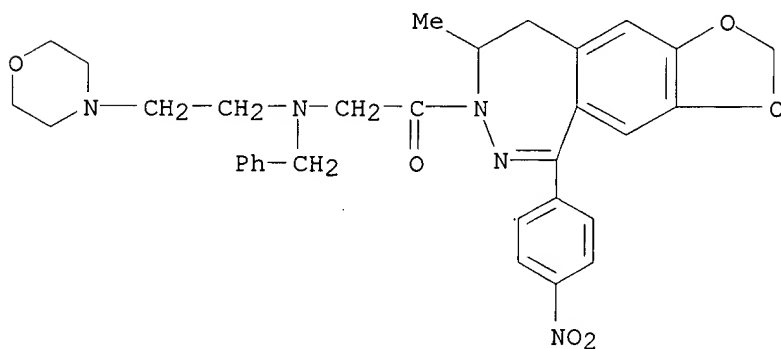
RN 220669-62-5 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-8-methyl-7-(4-morpholinylacetyl)-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 220669-63-6 CAPLUS

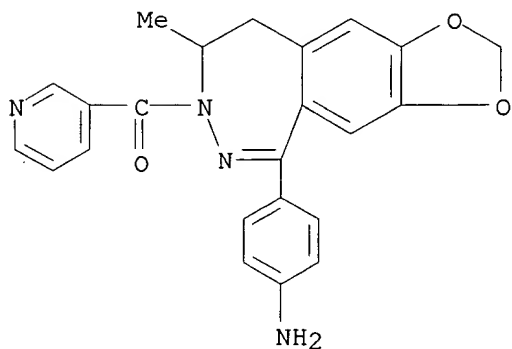
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-8-methyl-7-[[[2-(4-morpholinyl)ethyl](phenylmethyl)amino]acetyl]-5-(4-nitrophenyl)- (9CI)
(CA INDEX NAME)



09/485,441

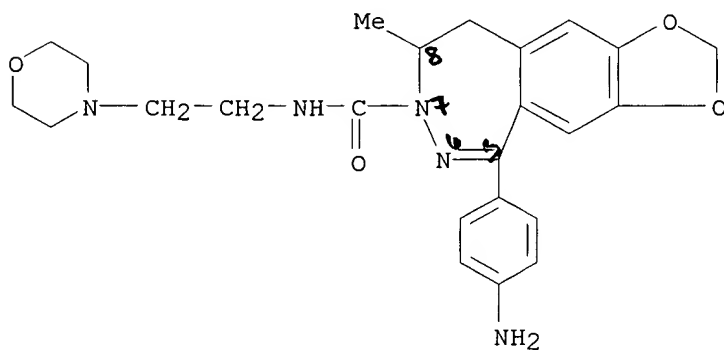
RN 220669-64-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-(3-pyridinylcarbonyl)- (9CI) (CA INDEX NAME)



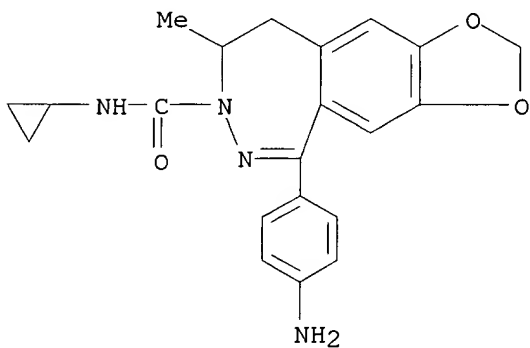
RN 220669-65-8 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



RN 220669-66-9 CAPLUS

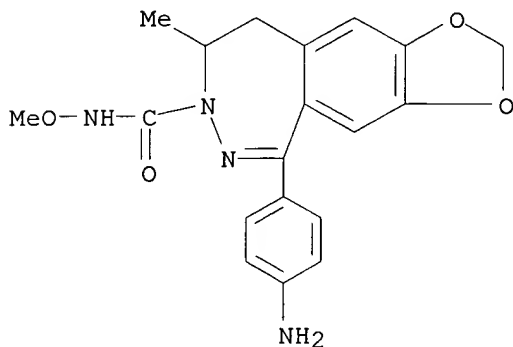
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-N-cyclopropyl-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)



09/485,441

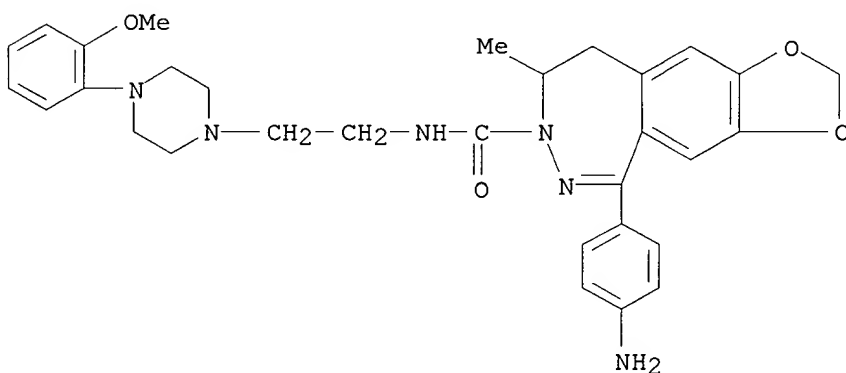
RN 220669-68-1 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N-methoxy-8-methyl- (9CI) (CA INDEX NAME)



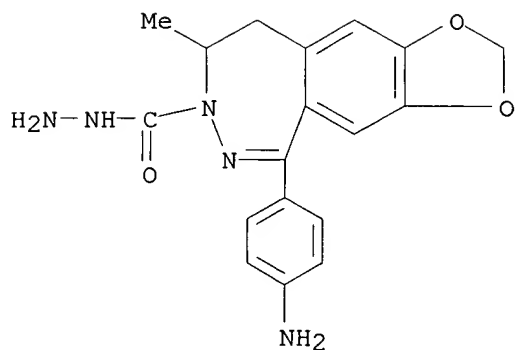
RN 220669-70-5 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N-[2-[4-(2-methoxyphenyl)-1-
piperazinyl]ethyl]-8-methyl- (9CI) (CA INDEX NAME)



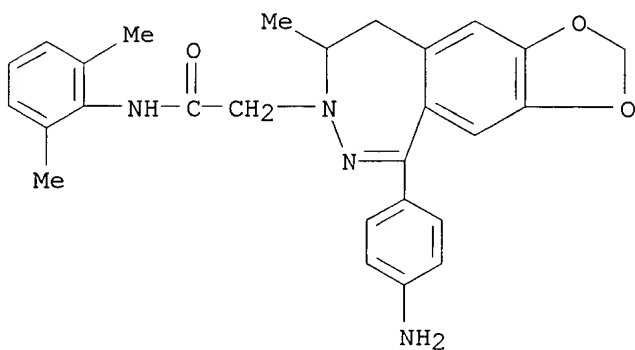
RN 220669-71-6 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxylic acid,
5-(4-aminophenyl)-8,9-dihydro-8-methyl-, hydrazide (9CI) (CA INDEX NAME)



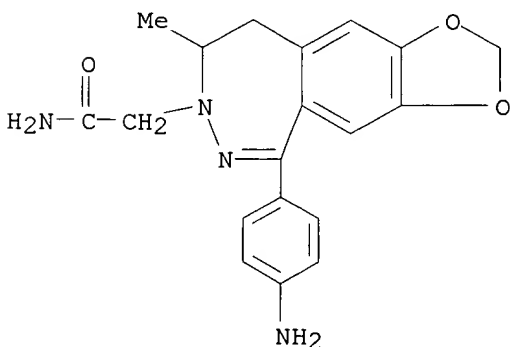
RN 220669-72-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-acetamide, 5-(4-aminophenyl)-N-(2,6-dimethylphenyl)-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)



RN 220669-74-9 CAPLUS

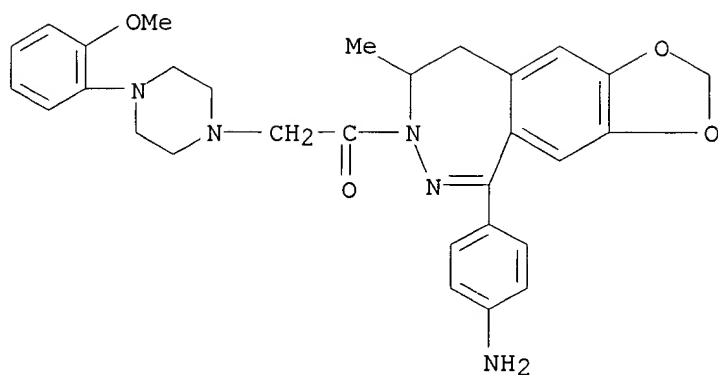
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-acetamide, 5-(4-aminophenyl)-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)



RN 220669-75-0 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-7-[[4-(2-methoxyphenyl)-1-piperazinyl]acetyl]-8-methyl- (9CI) (CA INDEX NAME)

09/485,441



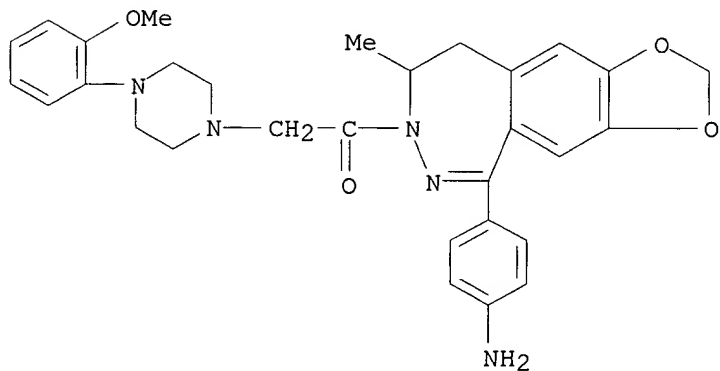
RN 220669-76-1 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-7-
[[4-(2-methoxyphenyl)-1-piperazinyl]acetyl]-8-methyl-, (2E)-2-butenedioate
(1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 220669-75-0

CMF C30 H33 N5 O4



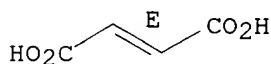
CM 2

CRN 110-17-8

CMF C4 H4 O4

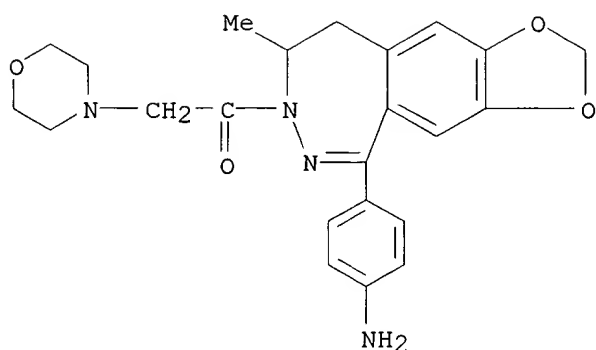
CDES 2:E

Double bond geometry as shown.



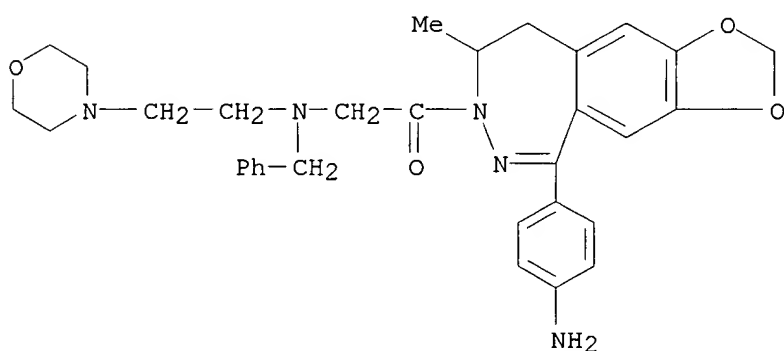
RN 220669-77-2 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-
methyl-7-(4-morpholinylacetyl)- (9CI) (CA INDEX NAME)



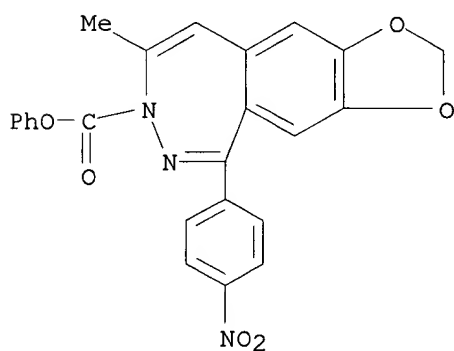
RN 220669-79-4 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-[[2-(4-morpholinyl)ethyl](phenylmethyl)amino]acetyl- (9CI) (CA INDEX NAME)



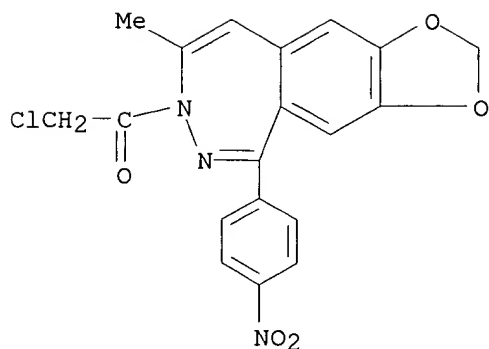
RN 220669-80-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxylic acid, 8-methyl-5-(4-nitrophenyl)-, phenyl ester (9CI) (CA INDEX NAME)



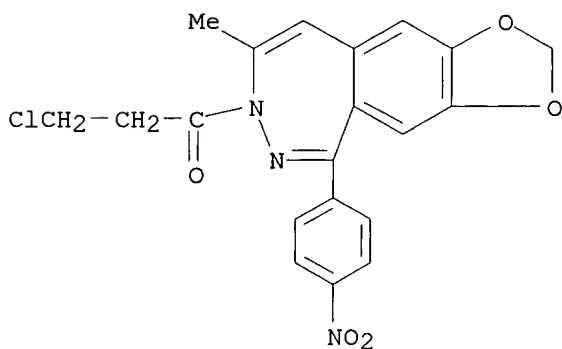
RN 220669-81-8 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(chloroacetyl)-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



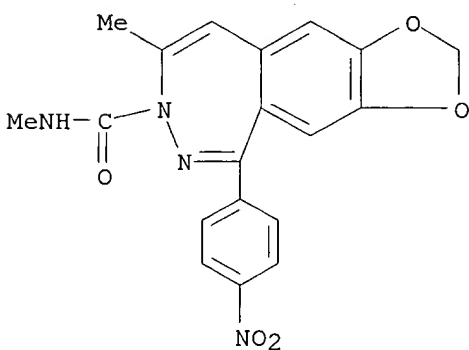
RN 220669-82-9 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(3-chloro-1-oxopropyl)-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



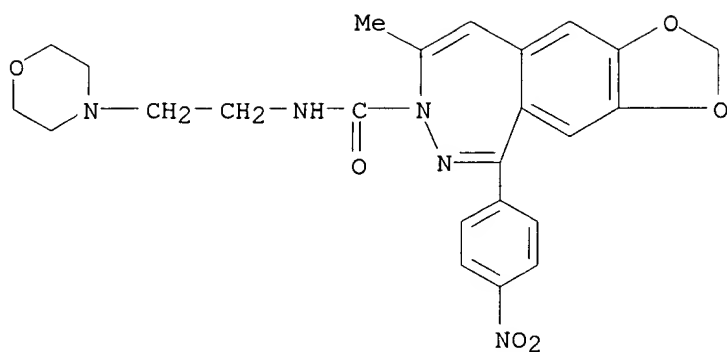
RN 220669-84-1 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, N,8-dimethyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

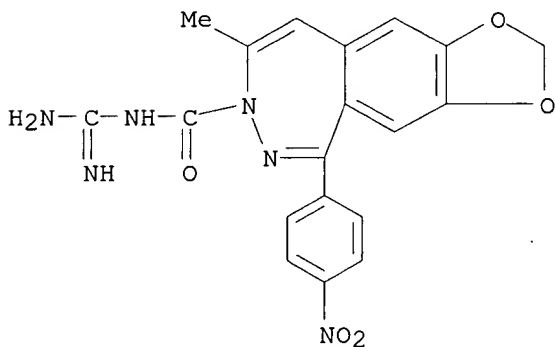


RN 220669-85-2 CAPLUS

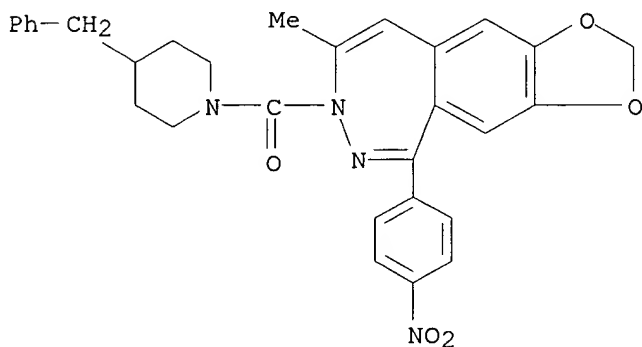
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 8-methyl-N-[2-(4-morpholinyl)ethyl]-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



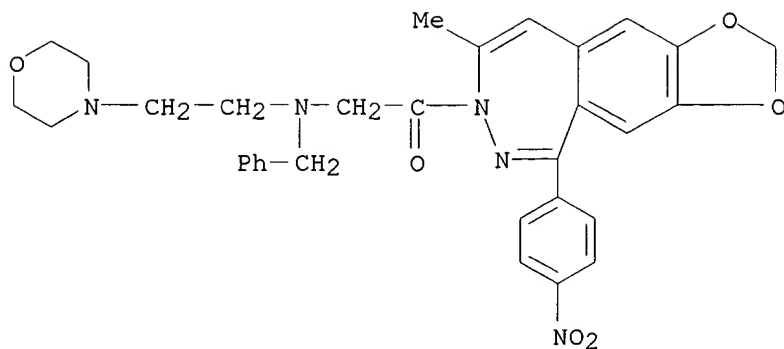
RN 220669-86-3 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
 N-(aminoiminomethyl)-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



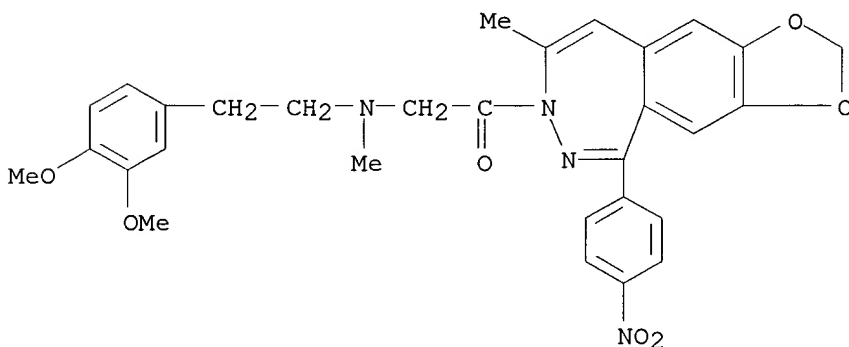
RN 220669-87-4 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8-methyl-5-(4-nitrophenyl)-7-[[4-(phenylmethyl)-1-piperidiny]carbonyl]- (9CI) (CA INDEX NAME)



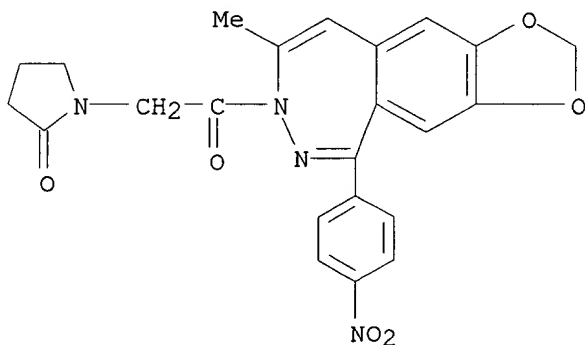
RN 220669-90-9 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8-methyl-7-[[[2-(4-morpholinyl)ethyl](phenylmethyl)amino]acetyl]-5-(4-nitrophenyl)- (9CI)
 (CA INDEX NAME)



RN 220669-92-1 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]acetyl]-8-methyl-5-(4-nitrophenyl)-
 (9CI) (CA INDEX NAME)

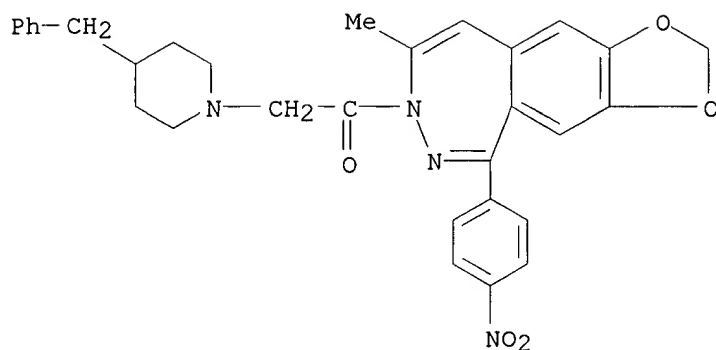


RN 220669-95-4 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8-methyl-5-(4-nitrophenyl)-7-[(2-oxo-1-pyrrolidinyl)acetyl]- (9CI) (CA INDEX NAME)



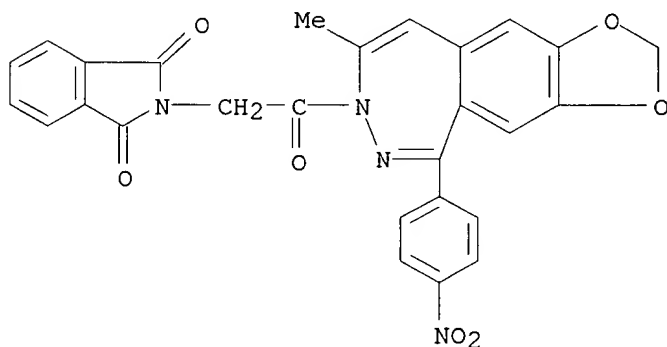
RN 220669-96-5 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8-methyl-5-(4-nitrophenyl)-7-[[4-(phenylmethyl)-1-piperidinyl]acetyl]- (9CI) (CA INDEX NAME)

09/485,441



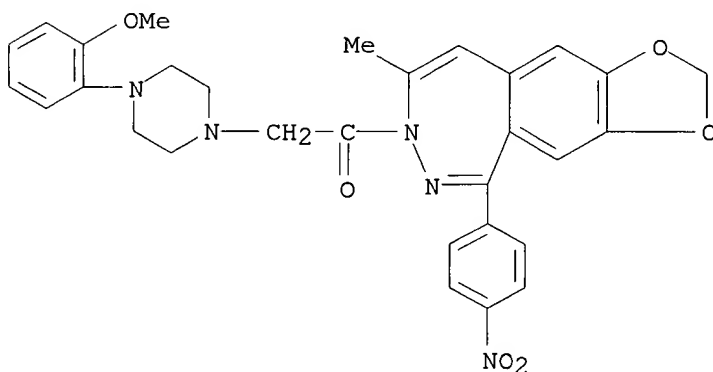
RN 220669-98-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)acetyl]-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 220670-01-9 CAPLUS

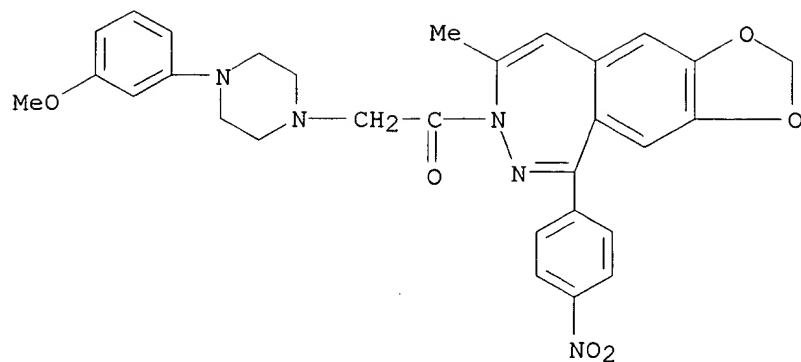
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[[4-(2-methoxyphenyl)-1-piperazinyl]acetyl]-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



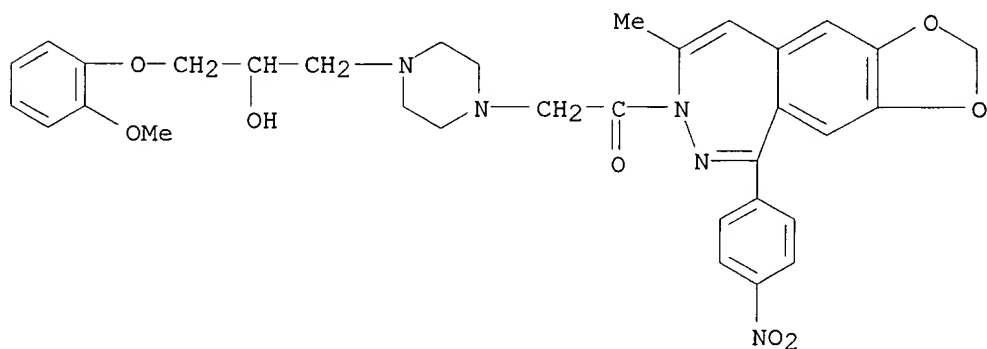
RN 220670-03-1 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[[4-(3-methoxyphenyl)-1-piperazinyl]acetyl]-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

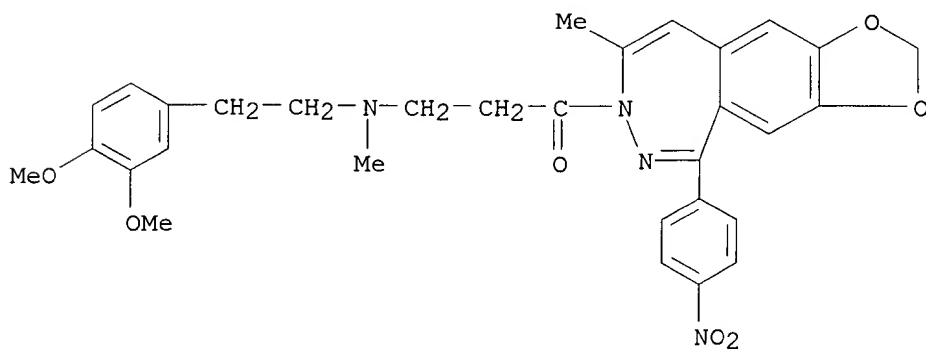
09/485,441



RN 220670-06-4 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[[4-[2-hydroxy-3-(2-methoxyphenoxy)propyl]-1-piperazinyl]acetyl]-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



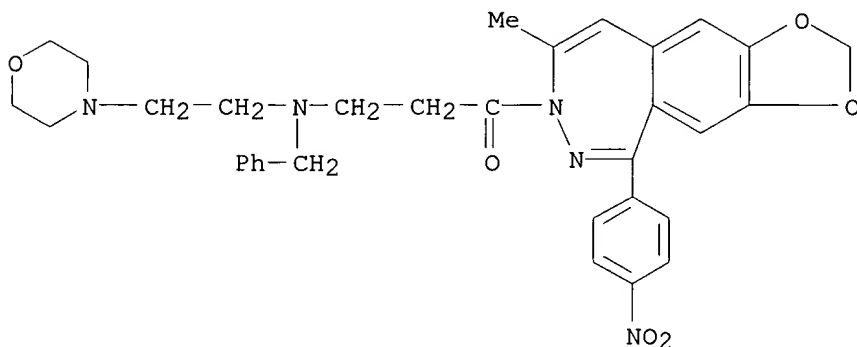
RN 220670-07-5 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]-1-oxopropyl]-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 220670-08-6 CAPLUS

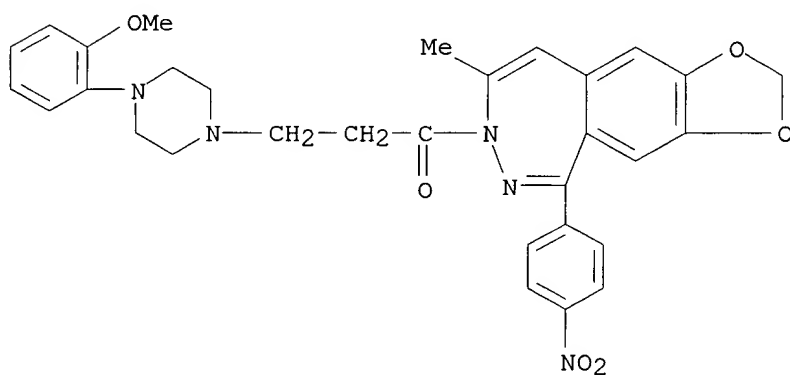
09/485,441

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8-methyl-7-[3-[[2-(4-morpholinyl)ethyl](phenylmethyl)amino]-1-oxopropyl]-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 220670-10-0 CAPLUS

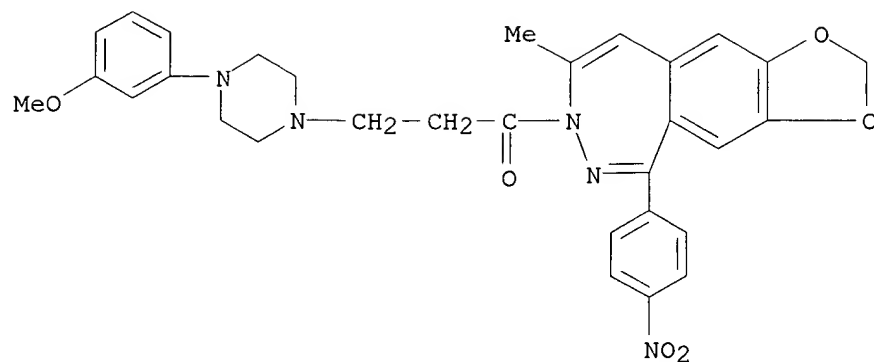
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[3-[4-(2-methoxyphenyl)-1-piperazinyl]-1-oxopropyl]-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 220670-11-1 CAPLUS

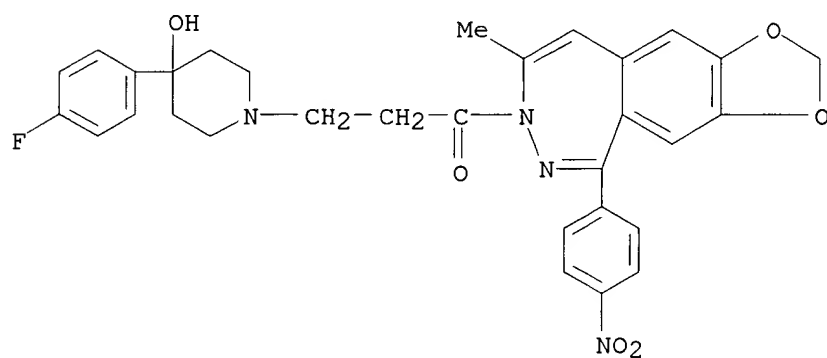
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[3-[4-(3-methoxyphenyl)-1-piperazinyl]-1-oxopropyl]-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

09/485,441



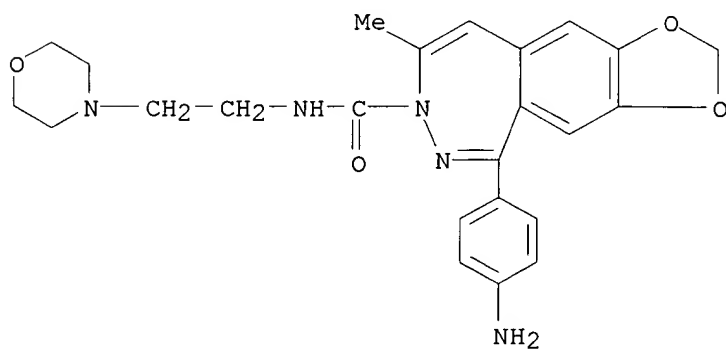
RN 220670-12-2 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[3-[4-(4-fluorophenyl)-4-hydroxy-1-piperidiny]-1-oxopropyl]-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 220670-13-3 CAPLUS

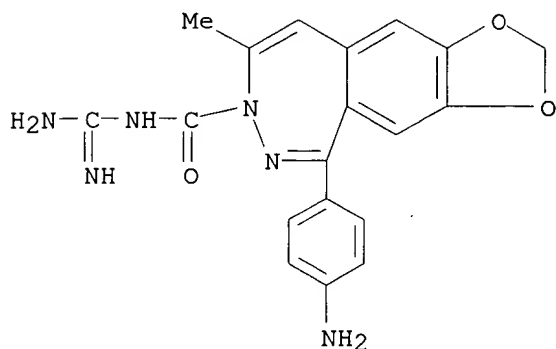
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8-methyl-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



RN 220670-15-5 CAPLUS

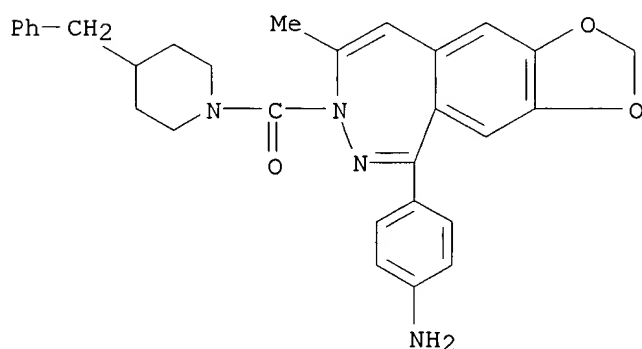
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,

N-(aminoiminomethyl)-5-(4-aminophenyl)-8-methyl- (9CI) (CA INDEX NAME)



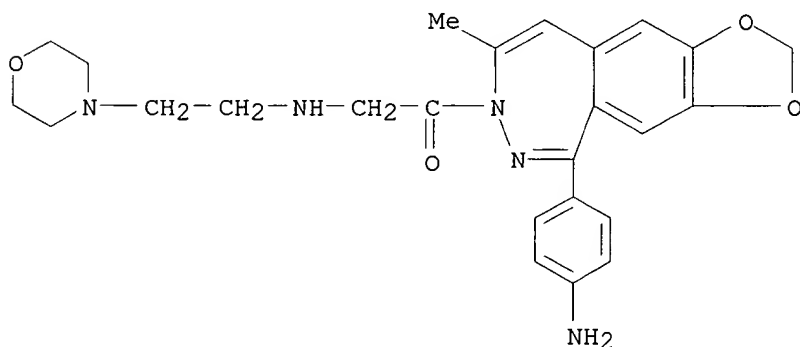
RN 220670-16-6 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8-methyl-7-[[4-(phenylmethyl)-1-piperidiny]carbonyl]- (9CI) (CA INDEX NAME)



RN 220670-17-7 CAPLUS

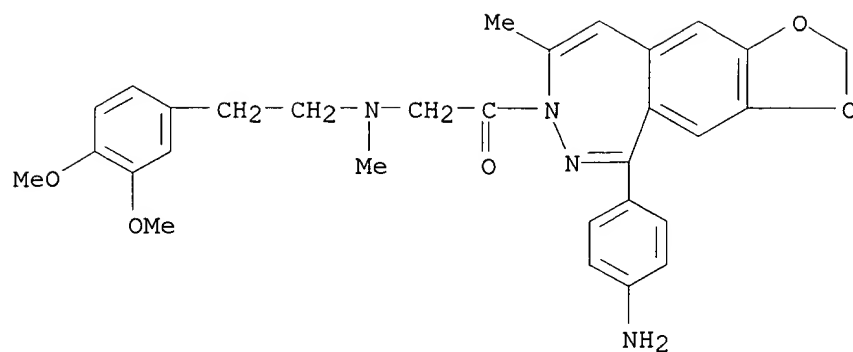
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8-methyl-7-[[2-(4-morpholinyl)ethyl]amino]acetyl]- (9CI) (CA INDEX NAME)



RN 220670-18-8 CAPLUS

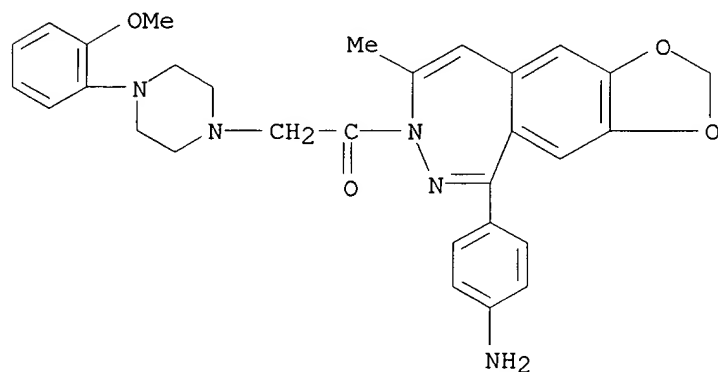
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-7-[[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]acetyl]-8-methyl- (9CI) (CA INDEX NAME)

09/485,441



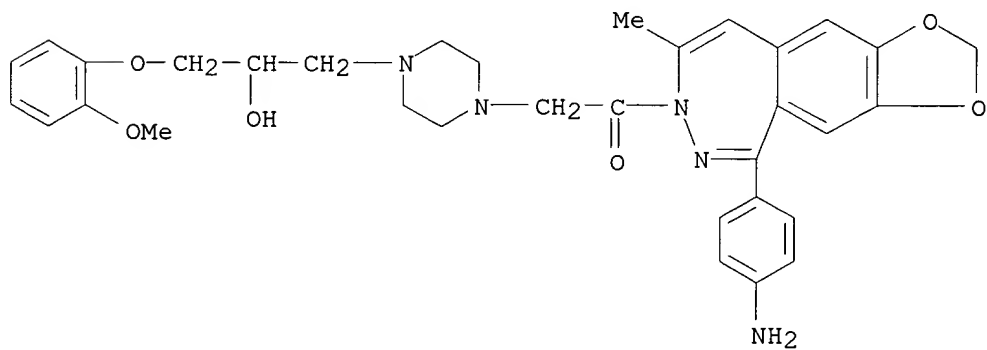
RN 220670-19-9 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-7-[[4-(2-methoxyphenyl)-1-piperazinyl]acetyl]-8-methyl- (9CI) (CA INDEX NAME)



RN 220670-20-2 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-7-[[4-[2-hydroxy-3-(2-methoxyphenoxy)propyl]-1-piperazinyl]acetyl]-8-methyl- (9CI) (CA INDEX NAME)

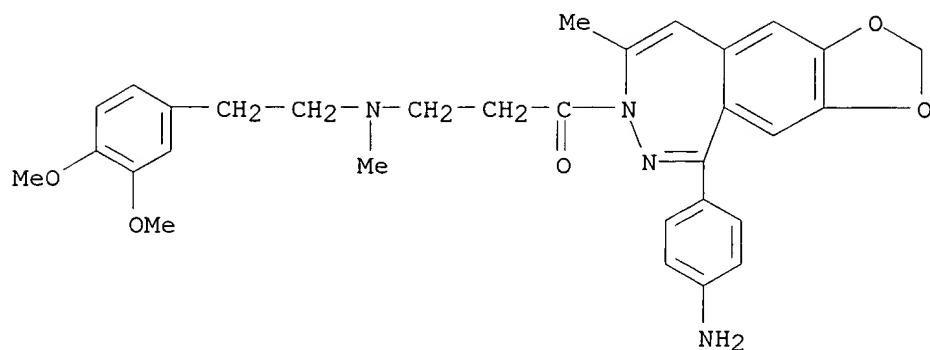


RN 220670-21-3 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-7-[3-[[2-(3,4-

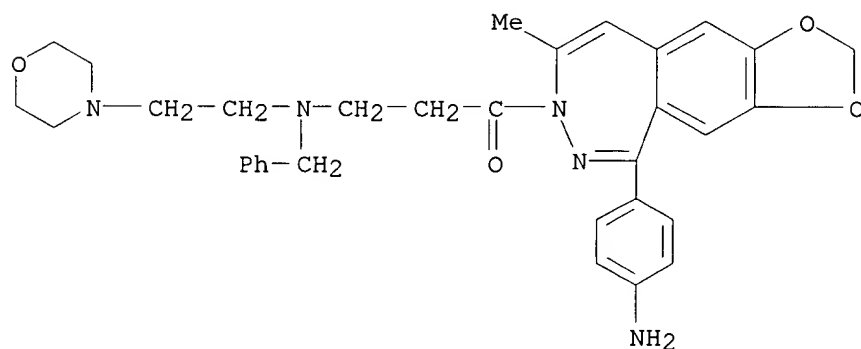
09/485,441

dimethoxyphenyl)ethyl]methylamino]-1-oxopropyl]-8-methyl- (9CI) (CA INDEX NAME)



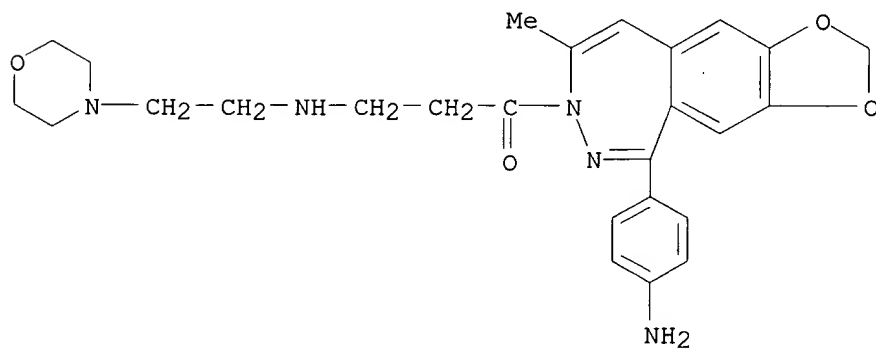
RN 220670-22-4 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8-methyl-7-[3-[[2-(4-morpholinyl)ethyl](phenylmethyl)amino]-1-oxopropyl]- (9CI) (CA INDEX NAME)



RN 220670-24-6 CAPLUS

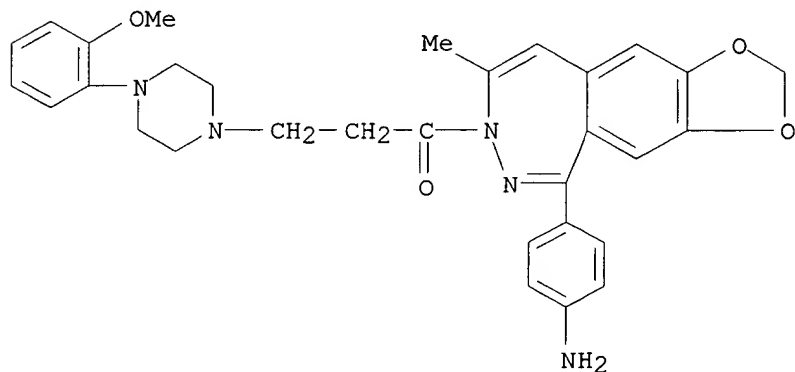
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RN 220670-25-7 CAPLUS

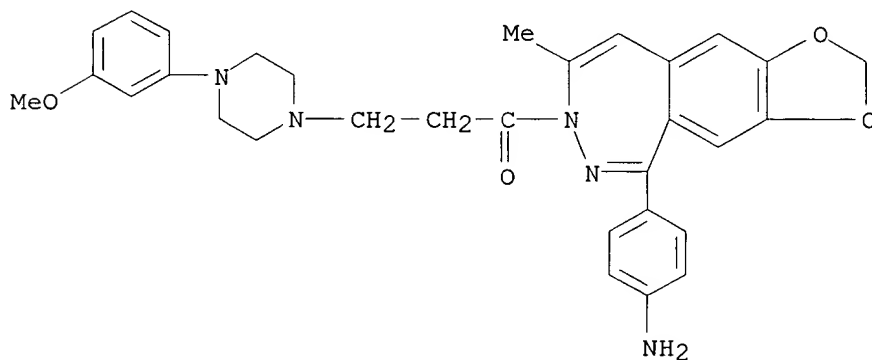
09/485,441

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-7-[3-[4-(2-methoxyphenyl)-1-piperazinyl]-1-oxopropyl]-8-methyl- (9CI) (CA INDEX NAME)



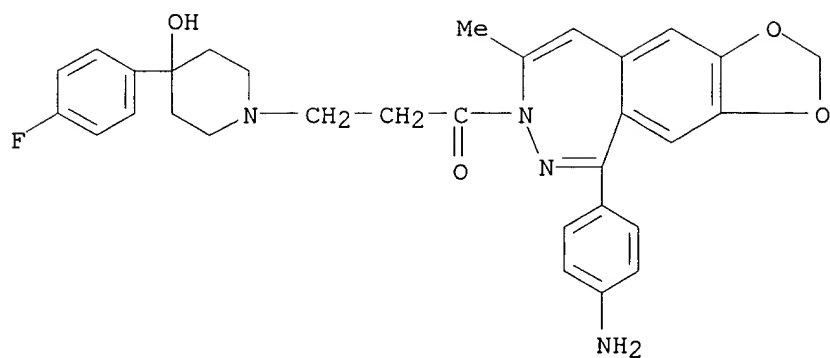
RN 220670-27-9 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-7-[3-[4-(3-methoxyphenyl)-1-piperazinyl]-1-oxopropyl]-8-methyl- (9CI) (CA INDEX NAME)

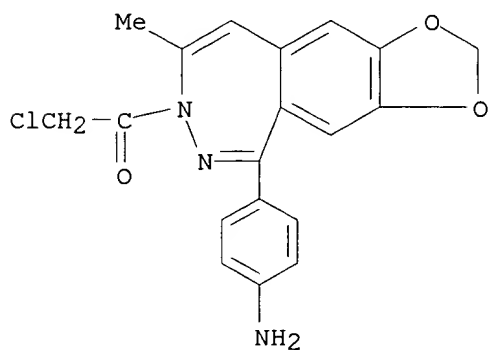


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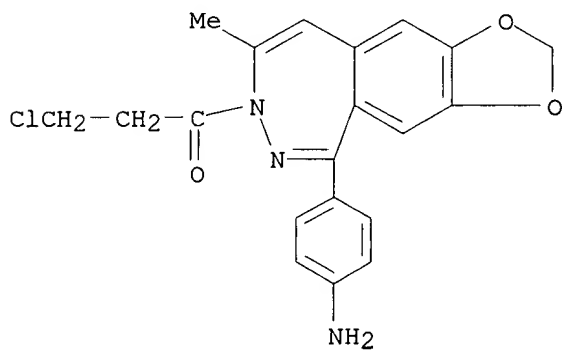
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-7-[3-[4-(4-fluorophenyl)-4-hydroxy-1-piperidinyl]-1-oxopropyl]-8-methyl- (9CI) (CA INDEX NAME)



RN 220670-29-1 CAPLUS
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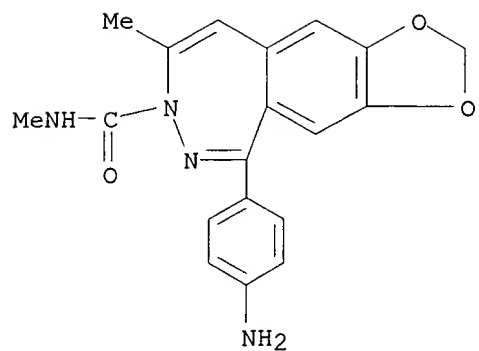


RN 220670-31-5 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-7-(3-chloro-1-oxopropyl)-8-methyl- (9CI) (CA INDEX NAME)



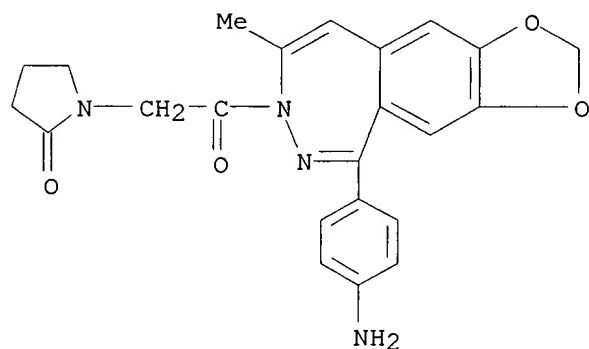
RN 220670-32-6 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-N,8-dimethyl- (9CI) (CA INDEX NAME)

09/485,441



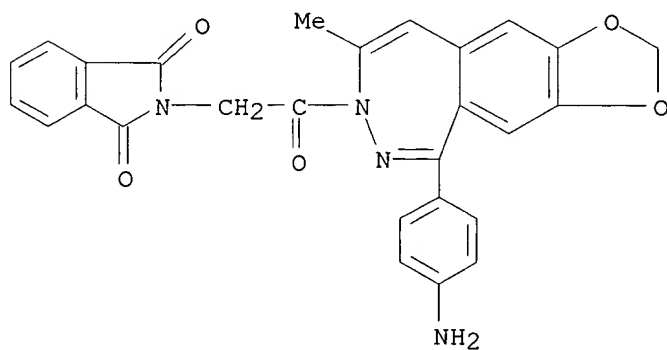
RN 220670-33-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8-methyl-7-[(2-oxo-1-pyrrolidinyl)acetyl]- (9CI) (CA INDEX NAME)



RN 220670-34-8 CAPLUS

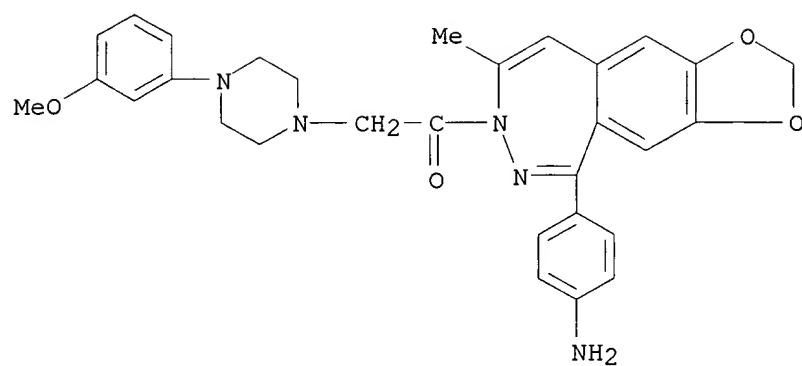
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-7-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)acetyl]-8-methyl- (9CI) (CA INDEX NAME)



RN 220670-36-0 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-7-[[4-(3-methoxyphenyl)-1-piperazinyl]acetyl]-8-methyl- (9CI) (CA INDEX NAME)

09/485,441



RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 8 OF 42 CAPLUS COPYRIGHT 2002 ACS

AN 1999:126903 CAPLUS

DN 130:196674

Preparation of 8-substituted-9h-1,3-dioxolo/4,5-h//2,3/benzodiazepine derivatives as AMPA/kainate receptor inhibitors

ELN Ratkai, Zoltan; Barkoczy, Jozsef; Schneider, Geza; Cselenyak, Judit; Simig, Gyula; Balazs, Laszlo; Doman, Imre; Greff, Zoltan; Kotay, Nagy Peter; Seres, Peter; Szabo, Geza; Gacsalyi, Istvan; Gigler, Gabor; Gyertyan, Istvan; Levay, Gyorgy; Kovacs, Attila; Simo, Annamaria; Szabados, Tamas; Egyed, Andras; Vegh, Miklos; Tihanyi, Karoly

PA Egis Gyogyszergyar Rt., Hung.

SO PCT Int. Appl., 191 pp.

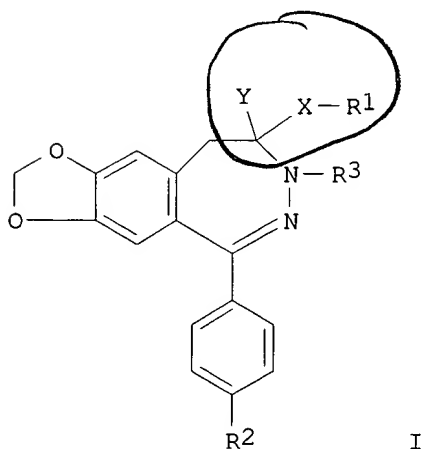
CODEN: PIXXD2

DT Patent

LA English

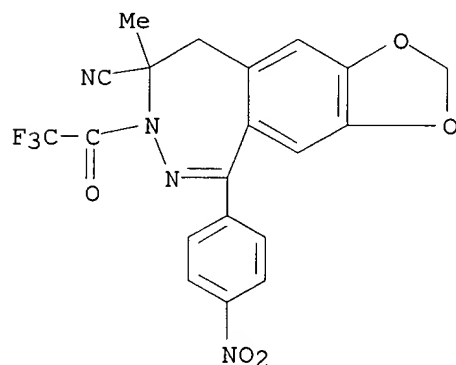
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	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9888181	A1	19990301	AU 1998-88181	19980807
	AU 735490	B2	20010712		
	EP 1003749	A1	20000531	EP 1998-939781	19980807
	R:	AT, BE, CH, DE, DK, ES, GB, GR, LI, NL, SE, PT, SI, LT, LV, FI, RO			
	JP 2001512730	T2	20010828	JP 2000-506210	19980807
	BR 9812120	A	20011120	BR 1998-12120	19980807
	NO 2000000655	A	20000410	NO 2000-655	20000209
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	HU 1997-1381	A	19970812		
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GI					

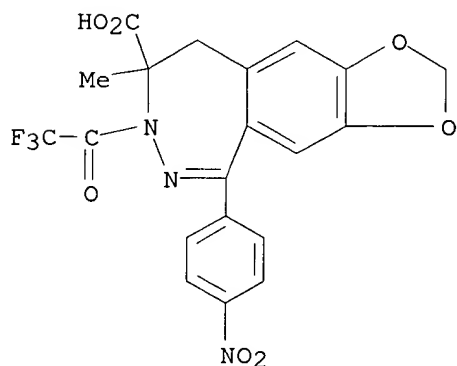


all
species
di. sub.

- AB Title compds. [I; R1 = H, CH3, OH, alkoxy, alkylsulfonyloxy, NH2, NHMe, etc.; R2 = NO2, NH2; R3 = H, Ac, CO(CH2)2Cl alkyl, alkylcarbonyl, pyridylcarbonyl, phenoxy carbonyl, etc.; X = CO, CH2, CH2CH2; XR1 = CN, tetrazolyl, CHNOH, COOH, etc.; Y = H, CH3; YR3 = a valence bond and X represents a methylene group, then R1 is other than a hydrogen atom] are prepd. as AMPA/kainate receptor inhibitors and pharmaceutical compns. contg. these active substances are reported. Thus, I (YR3 = bond; XR1 = CONHET; R2 = NO2) was prepd. from I (XR1 = CH3) with an oxidizing agent.
- IT 220725-70-2P 220725-71-3P 220725-75-7P
 220725-76-8P 220725-77-9P 220725-78-0P
 220725-79-1P 220725-80-4P 220725-81-5P
 220725-82-6P 220725-84-8P 220725-85-9P
 220725-86-0P 220726-06-7P
 RL: BAC (Biological activity or effector, except adverse); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. of dioxolobenzodiazepines as AMPA/kainate receptor inhibitors)
- RN 220725-70-2 CAPLUS
- CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile, 8,9-dihydro-8-methyl-5-(4-nitrophenyl)-7-(trifluoroacetyl)- (9CI) (CA INDEX NAME)

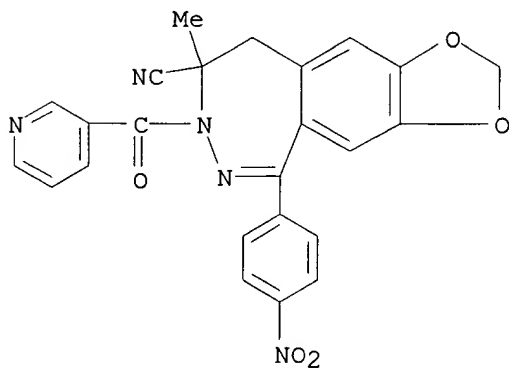


- RN 220725-71-3 CAPLUS
- CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carboxylic acid, 8,9-dihydro-8-methyl-5-(4-nitrophenyl)-7-(trifluoroacetyl)- (9CI) (CA INDEX NAME)



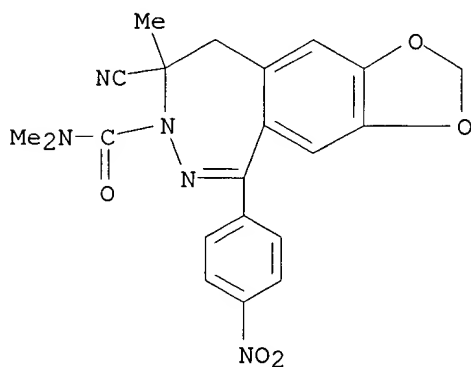
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INDEX NAME)



RN 220725-76-8 CAPLUS

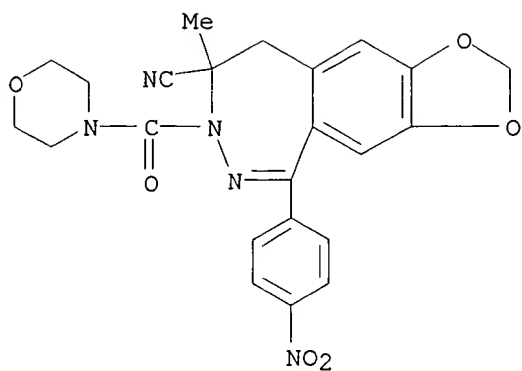
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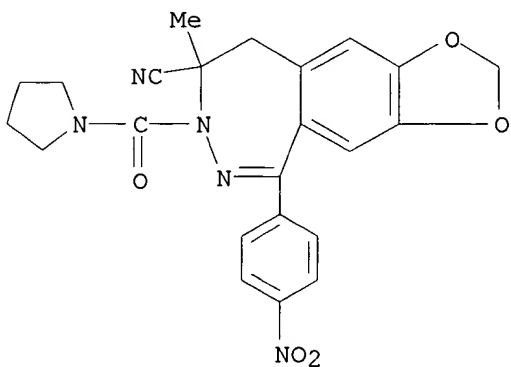
RN 220725-77-9 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
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(CA INDEX NAME)

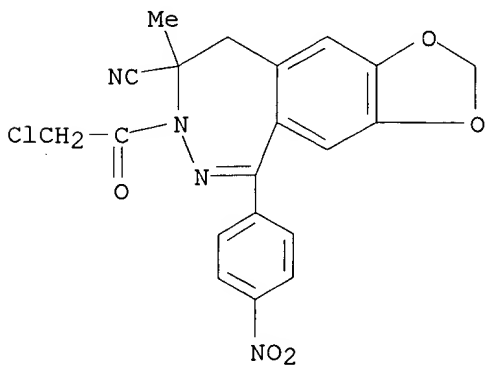
09/485,441



RN 220725-78-0 CAPLUS
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(CA INDEX NAME)



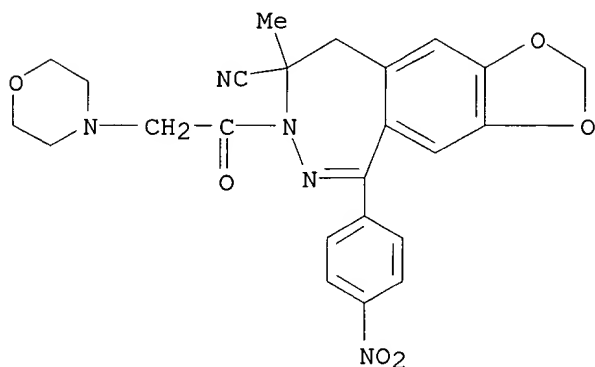
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NAME)



09/485,441

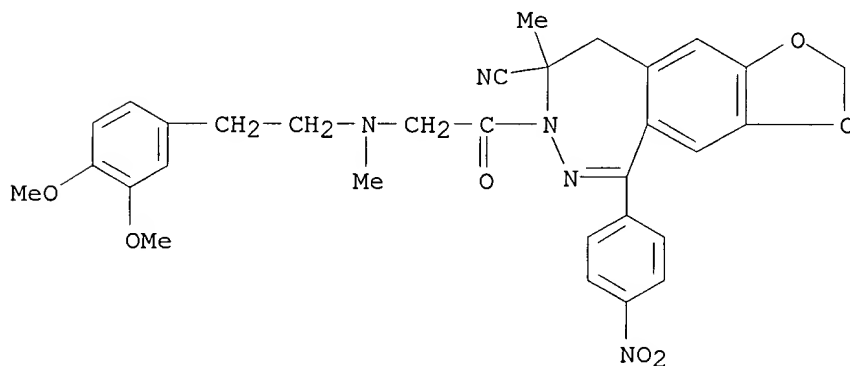
RN 220725-80-4 CAPLUS

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INDEX NAME)



RN 220725-81-5 CAPLUS

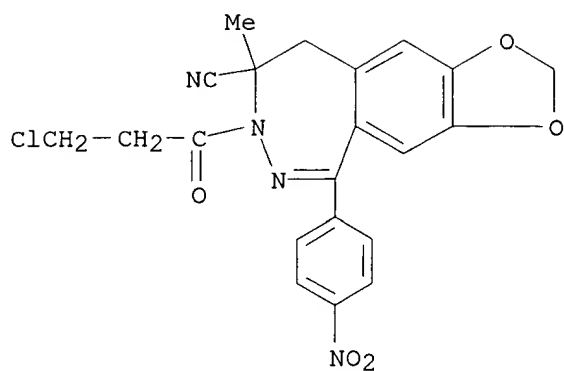
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5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



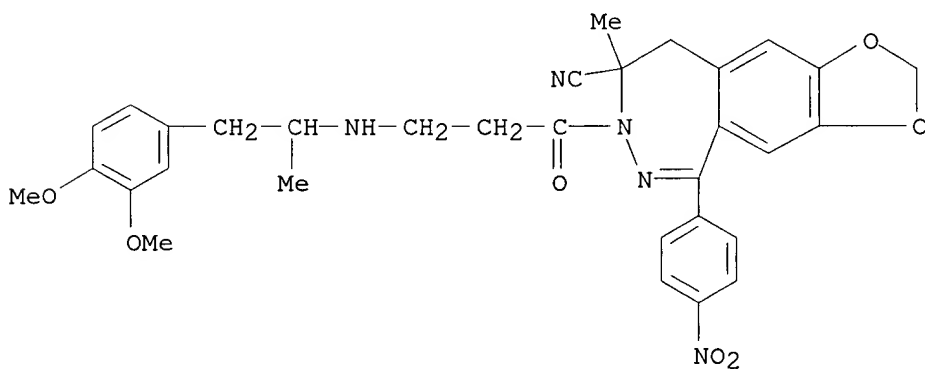
RN 220725-82-6 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
7-(3-chloro-1-oxopropyl)-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI)
(CA INDEX NAME)

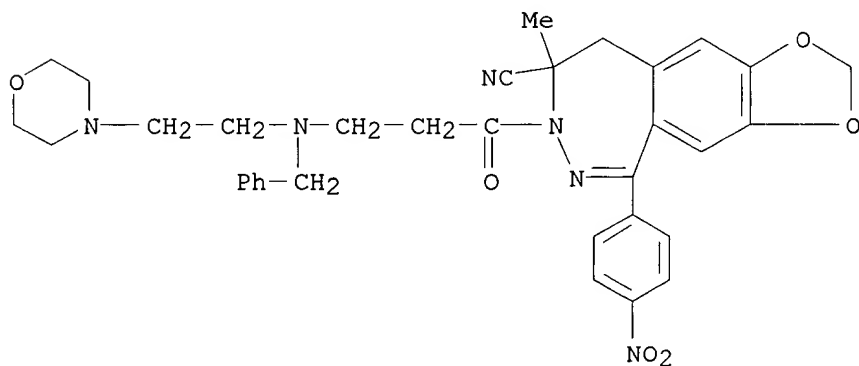
09/485,441



RN 220725-84-8 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
7-[3-[[2-(3,4-dimethoxyphenyl)-1-methylethyl]amino]-1-oxopropyl]-8,9-
dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



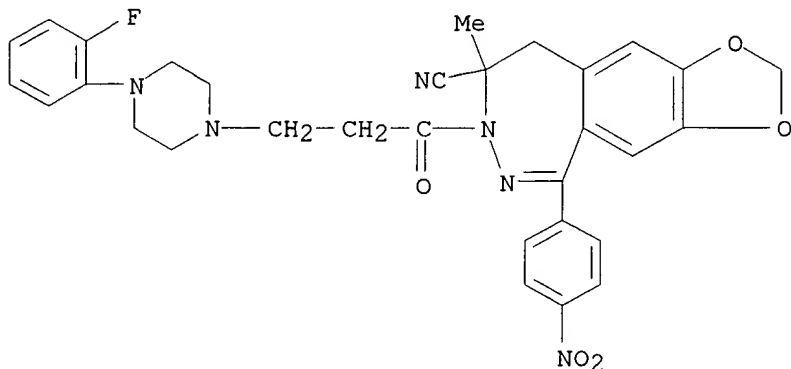
RN 220725-85-9 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
8,9-dihydro-8-methyl-7-[3-[[2-(4-morpholinyl)ethyl](phenylmethyl)amino]-1-
oxopropyl]-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



09/485,441

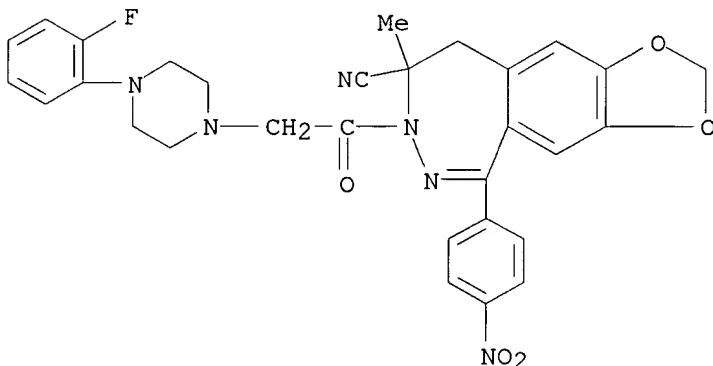
RN 220725-86-0 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
7-[3-[4-(2-fluorophenyl)-1-piperazinyl]-1-oxopropyl]-8,9-dihydro-8-methyl-
5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 220726-06-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
7-[[4-(2-fluorophenyl)-1-piperazinyl]acetyl]-8,9-dihydro-8-methyl-5-(4-
nitrophenyl)- (9CI) (CA INDEX NAME)



IT 220725-69-9P 220725-83-7P 220725-89-3P

220725-90-6P 220725-91-7P 220725-94-0P

220725-95-1P 220725-96-2P 220725-97-3P

220725-98-4P 220725-99-5P 220726-00-1P

220726-02-3P 220726-05-6P 220726-07-8P

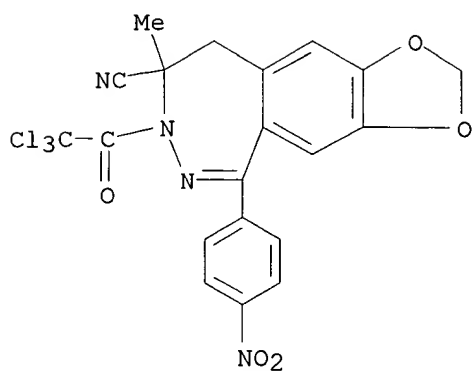
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. of dioxolobenzodiazepines as AMPA/kainate receptor inhibitors)

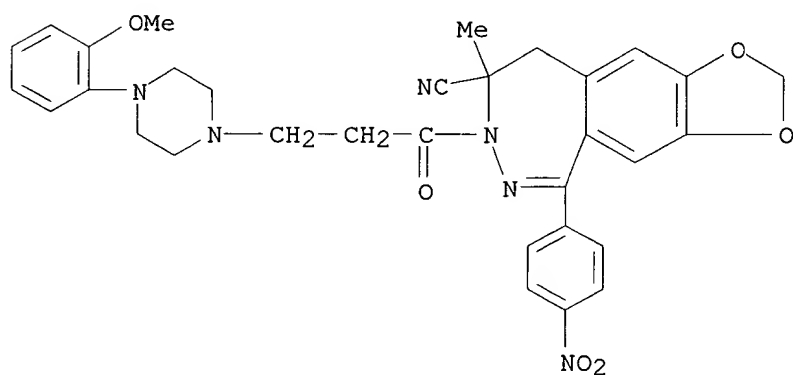
RN 220725-69-9 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
8,9-dihydro-8-methyl-5-(4-nitrophenyl)-7-(trichloroacetyl)- (9CI) (CA
INDEX NAME)

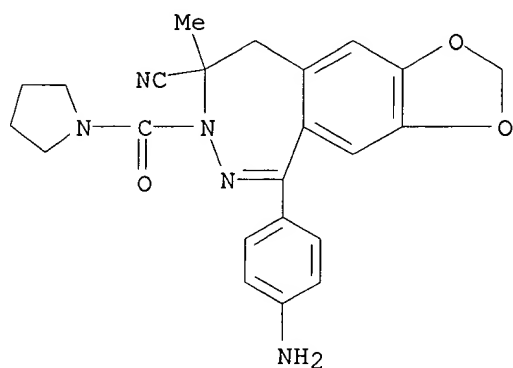
09/485,441



RN 220725-83-7 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
8,9-dihydro-7-[3-[4-(2-methoxyphenyl)-1-piperazinyl]-1-oxopropyl]-8-methyl-
5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



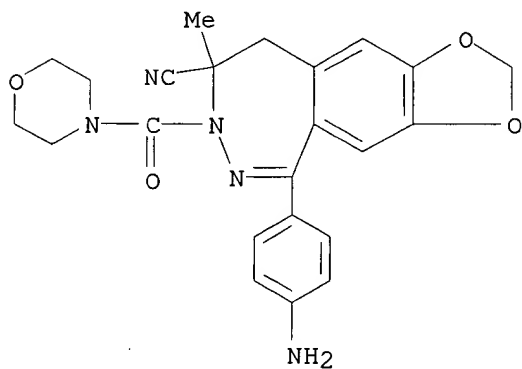
RN 220725-89-3 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-(1-pyrrolidinylcarbonyl)- (9CI)
(CA INDEX NAME)



09/485,441

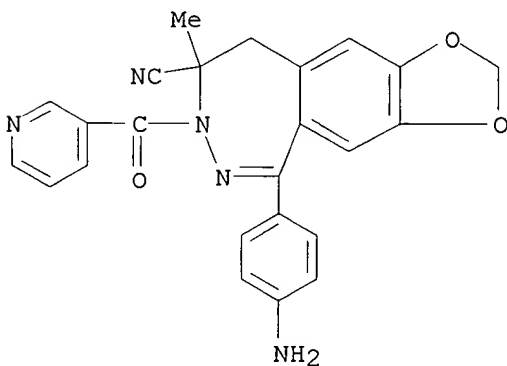
RN 220725-90-6 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-(4-morpholinylcarbonyl)- (9CI)
(CA INDEX NAME)



RN 220725-91-7 CAPLUS

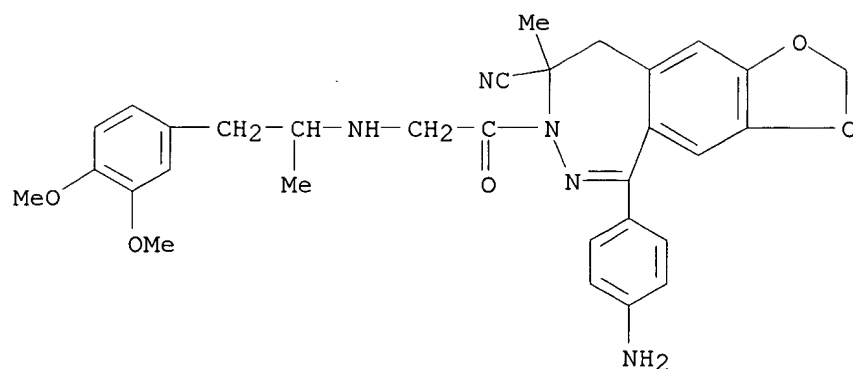
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-(3-pyridinylcarbonyl)- (9CI) (CA
INDEX NAME)



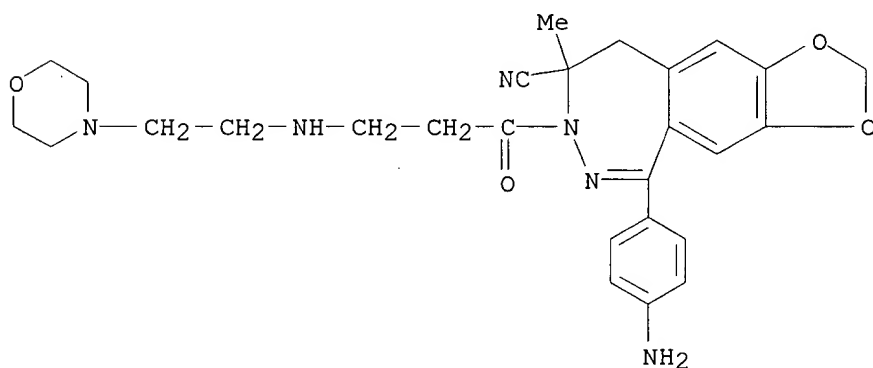
RN 220725-94-0 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
5-(4-aminophenyl)-7-[[[2-(3,4-dimethoxyphenyl)-1-methylethyl]amino]acetyl]-
8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)

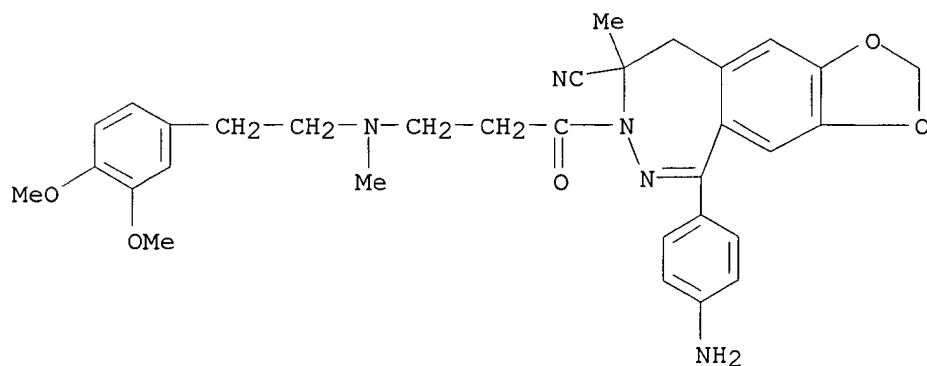
09/485,441



RN 220725-95-1 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-[3-[[2-(4-
morpholinyl)ethyl]amino]-1-oxopropyl]- (9CI) (CA INDEX NAME)



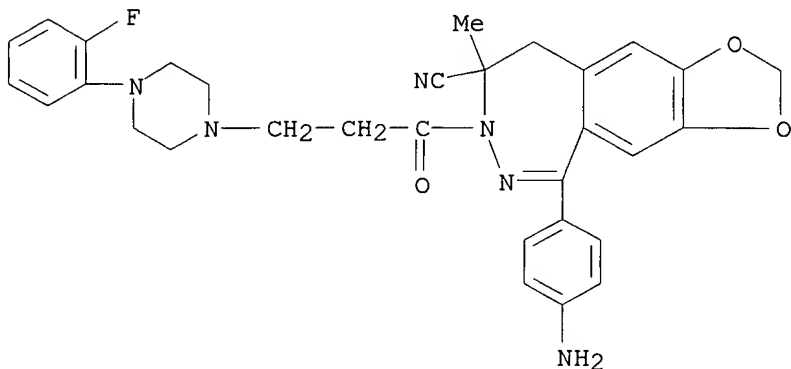
RN 220725-96-2 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
5-(4-aminophenyl)-7-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]-1-
oxopropyl]-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)



09/485,441

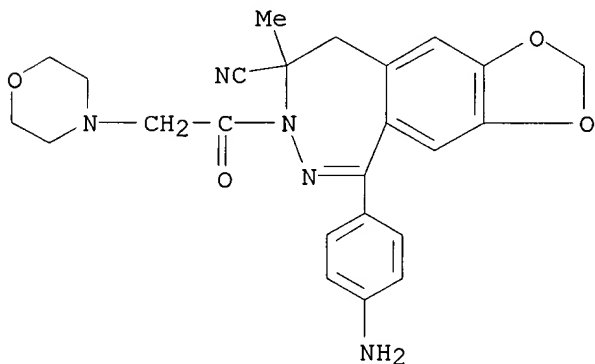
RN 220725-97-3 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
5-(4-aminophenyl)-7-[3-[4-(2-fluorophenyl)-1-piperazinyl]-1-oxopropyl]-8,9-
dihydro-8-methyl- (9CI) (CA INDEX NAME)



RN 220725-98-4 CAPLUS

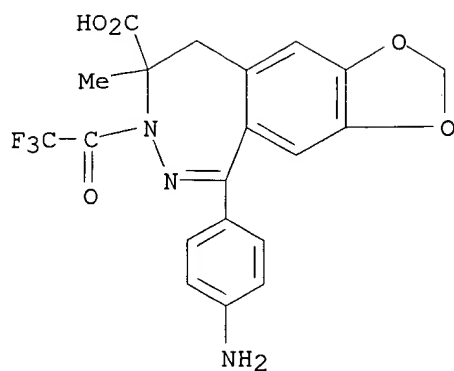
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-(4-morpholinylacetyl)- (9CI) (CA
INDEX NAME)



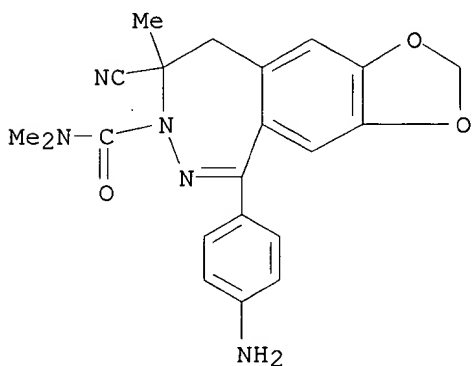
RN 220725-99-5 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carboxylic acid,
5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-(trifluoroacetyl)- (9CI) (CA
INDEX NAME)

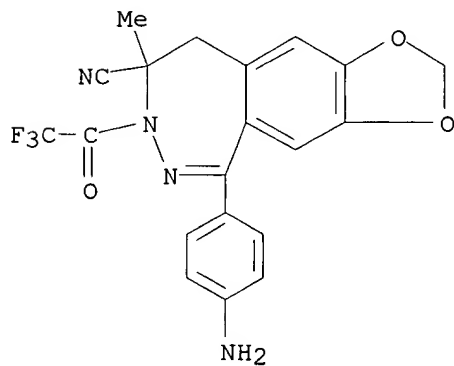
09/485,441



RN 220726-00-1 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8-cyano-8,9-dihydro-N,N,8-trimethyl- (9CI) (CA INDEX
NAME)



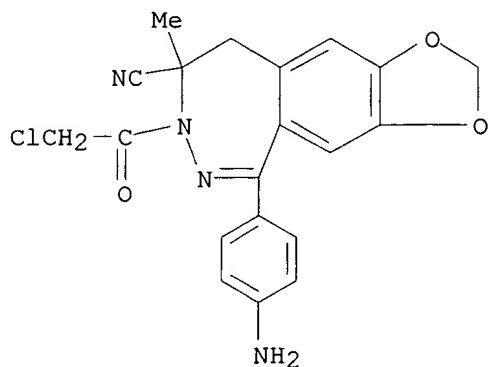
RN 220726-02-3 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-(trifluoroacetyl)- (9CI) (CA
INDEX NAME)



09/485,441

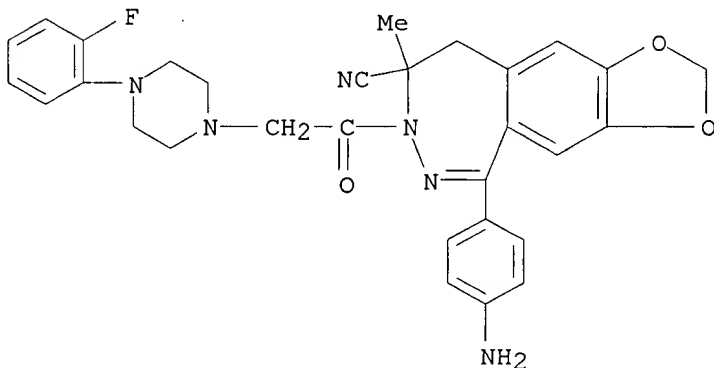
RN 220726-05-6 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
5-(4-aminophenyl)-7-(chloroacetyl)-8,9-dihydro-8-methyl- (9CI) (CA INDEX
NAME)



RN 220726-07-8 CAPLUS

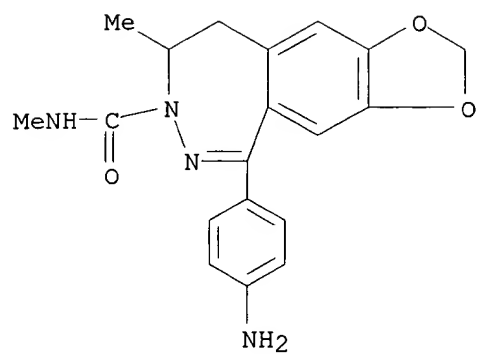
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-8-carbonitrile,
5-(4-aminophenyl)-7-[[4-(2-fluorophenyl)-1-piperazinyl]acetyl]-8,9-dihydro-
8-methyl- (9CI) (CA INDEX NAME)



RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

~~DA~~ 4 ANSWER 9 OF 42 CAPLUS COPYRIGHT 2002 ACS
~~AN~~ 1998:779045 CAPLUS
~~DN~~ 130:90453
 TI Actions of kainate and AMPA selective glutamate receptor ligands on
 nociceptive processing in the spinal cord
 AU Procter, Mark J.; Houghton, Andrea K.; Faber, E. S. Louise; Chizh, Boris
 A.; Ornstein, Paul L.; Lodge, David; Headley, P. Max
 CS Department of Physiology, School of Medical Sciences, University of
 Bristol, University Walk, Bristol, BS8 1TD, UK
 SO Neuropharmacology (1998), 37(10-11), 1287-1297
 CODEN: NEPHBW; ISSN: 0028-3908 Oct. 1
 PB Elsevier Science Ltd.
 DT Journal
 LA English
 AB Kainate receptors expressing the GluR5 subunit of glutamate receptor are
 present at high levels on small diam. primary afferent neurons that are
 considered to mediate nociceptive inputs. This suggests that GluR5
 selective ligands could be novel analgesic agents. The role of kainate
 receptors on C fiber primary afferents has therefore been probed using
 three compds. that are selective for homomeric GluR5 receptors. The
 agonist, ATPA, and the antagonists, LY 294486 and LY 382884, have been
 tested in four models of nociception: responses evoked by noxious
 stimulation of the periphery have been recorded electrophysiol. (1) from
 hemisected spinal cords from neonatal rats in vitro, (2) from single motor
 units in adult rats in vivo, (3) from dorsal horn neurons in adult rats in
 vivo, and (4) in hotplate tests with conscious mice. In some protocols
 comparisons were made with the AMPA selective antagonist GYKI 53655. The
 agonist ATPA reduced nociceptive reflexes in vitro, but failed to have
 effects in vivo. In all tests, the GluR5 antagonists reduced nociceptive
 responses but only at doses that also affected responses to exogenous
 AMPA. The AMPA antagonist reduced nociceptive responses at doses causing
 relatively greater redns. of responses to exogenous AMPA. The results
 indicate that GluR5 selective ligands do reduce spinal nociceptive
 responses, but they are not strongly analgesic under these conditions of
 acute nociception.
 IT **143692-48-2**, GYKI 53655
 RL: BAC (Biological activity or effector, except adverse); THU
 (Therapeutic use); BIOL (Biological study); USES (Uses)
 (kainate and AMPA selective glutamate receptor ligands action on
 nociceptive processing in spinal cord of rats and mice)
 RN 143692-48-2 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA
 INDEX NAME)

09/485,441



● HCl

RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

~~LI~~ ANSWER 10 OF 42 CAPLUS COPYRIGHT 2002 ACS

AN 1998:779039 CAPLUS

DN 130:137331

TI Pharmacological differentiation of kainate receptors on neonatal rat spinal motoneurons and dorsal roots

AU Thomas, Nicola K.; Hawkins, Lynda M.; Miller, Jacqueline C.; Troop, Helen M.; Roberts, Peter J.; Jane, David E.

CS Department of Pharmacology, School of Medical Sciences, University of Bristol, Bristol, BS8 1TD, UK

SO Neuropharmacology (1998), 37(10-11), 1223-1237

CODEN: NEPHBW; ISSN: 0028-3908

PB Elsevier Science Ltd.

DT Journal

LA English

AB The objectives of this study, conducted on neonatal rat spinal cord and dorsal roots in vitro, were to characterize the actions of a range of willardiine analogs on GluR5-contg. kainate receptors present in dorsal roots, to det. whether GluR5-contg. receptors are also present on motoneurons, and to differentiate responses mediated by kainate receptors from those mediated by AMPA receptors on motoneurons. (S)-5-Trifluoromethyl-willardiine, (S)-5-iodowillardiine, (S)-5-iodo-6-azawillardiine and ATPA were found to be potent agonists of kainate receptors on dorsal roots (EC50 values 0.108 \pm 0.002, 0.127 \pm 0.010, 0.685 \pm 0.141 and 1.3 \pm 0.3 μ M, resp.) being more potent but of lower efficacy than kainate (EC50 value 14.8 \pm 1.8 μ M). (S)-5-Iodo-6-azawillardiine blocked kainate-induced depolarizations of the dorsal root, probably via its desensitizing action. Kainate-induced responses of dorsal roots were weakly antagonized by (RS)-3,5-dicarboxyphenylglycine (DCPG) (apparent KD 1.5 \pm 0.4 mM). Kainate receptors contg. GluR5 subunits do not appear to be present on motoneurons since (RS)-3,5-DCPG (1 mM) potentiated rather than antagonized kainate-induced depolarizations of motoneurons. Although (S)-5-iodowillardiine (a potent and selective agonist at GluR5-contg. kainate receptors) depolarized motoneurons (EC50 value 5.8 \pm 0.6 μ M), such depolarizations were antagonized by both (RS)-3,4- and (RS)-3,5-DCPG, which are selective AMPA receptor antagonists at motoneurons, showing a KD value of 73 μ M (Schild slope, 0.96 \pm 0.09) and an apparent KD value of 123 \pm 38 μ M, resp. This accords with the previously reported activity of willardiine analogs at AMPA receptors. Since neither (RS)-3,4- nor (RS)-3,5-DCPG antagonized kainate-induced motoneuronal depolarizations but cyclothiazide enhanced and GYKI53655 blocked these responses it is possible that a component of the kainate response may be mediated by a population of DCPG-insensitive AMPA receptors on motoneurons. However, it is also possible that a population of kainate receptors other than those contg. GluR5 subunits, are responsible for these effects. The new compds. introduced in this study are likely to be useful tools for studying the physiol. role of kainate receptors in CNS function.

IT 143692-48-2, GYKI53655

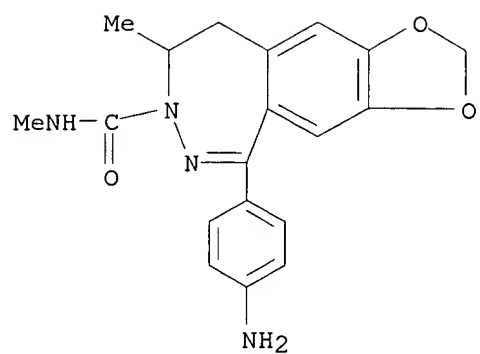
RL: BAC (Biological activity or effector, except adverse); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(pharmacol. differentiation of kainate and AMPA receptors on neonatal rat spinal motoneurons and dorsal roots and willardiine analogs as tools for studying kainate receptors)

RN 143692-48-2 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

09/485,441



● HCl

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

~~LM~~ ANSWER 11 OF 42 CAPLUS COPYRIGHT 2002 ACS

AN 1998:490526 CAPLUS

DN 129:131257

TI Treatment of neurotoxicity in Alzheimer's disease by .beta.-amyloid peptides

IN Ingram, Vernon M.; Blanchard, Barbara J.

PA Massachusetts Institute of Technology, USA

SO PCT Int. Appl., 69 pp.

CODEN: PIXXD2

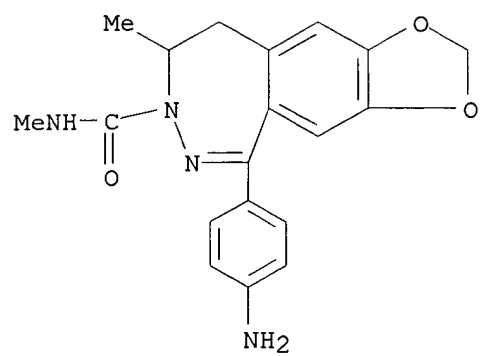
DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9830229	A1	19980716	WO 1998-US653	19980109
	W: CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP	1015013	A1	20000705	EP 1998-902522	19980109
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRAI	US 1997-35847P	P	19970110		
	US 1997-960188	A	19971029		
	WO 1998-US653	W	19980109		
AB	The invention involves identification of a mechanism of .beta.-amyloid peptide cytotoxicity, which enables treatment of conditions caused by .beta.-amyloid peptide aggregates by administration of compds. which antagonize the mechanism of cytotoxicity. The invention includes the identification and isolation of compds. which can antagonize the aggregation of .beta.-amyloid peptides and the neurotoxic effects of such aggregates. The compds. include isolated peptides which were selected for their ability to form a complex with a .beta.-amyloid peptide, or are derived from peptides so selected. Methods for treating conditions resulting from neurotoxic .beta.-amyloid peptide aggregates and pharmaceutical prepns. are provided. Also provided are methods for selecting addnl. compds. which can antagonize the aggregation of .beta.-amyloid peptides and the neurotoxic effects of such aggregates.				
IT	143692-48-2 , GYKI 53655				
	RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (treatment of neurotoxicity in Alzheimer's disease by .beta.-amyloid peptides)				
RN	143692-48-2 CAPLUS				
CN	7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)				

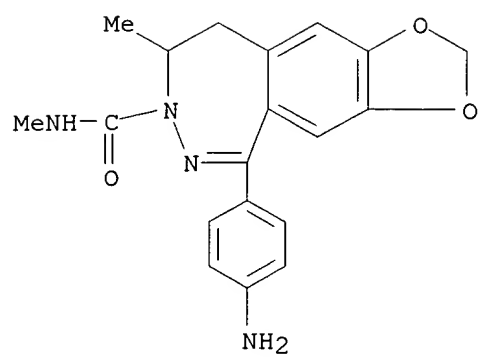
09/485,441



● HCl

~~14~~ 4 ANSWER 12 OF 42 CAPLUS COPYRIGHT 2002 ACS
 1998:450597 CAPLUS
 DN 129:184532
 TI AMPA receptor mediated excitotoxicity in neocortical neurons is
 developmentally regulated and dependent upon receptor desensitization
 AU Jensen, J. B.; Schousboe, A.; Pickering, D. S.
 CS PharmaBiotec Research Center, Department of Pharmacology, The Royal Danish
 School of Pharmacy, Copenhagen, DK-2100, Den.
 SO Neurochem. Int. (1998), 32(5-6), 505-513
 CODEN: NEUIDS; ISSN: 0197-0186
 PB Elsevier Science Ltd.
 DT Journal
 LA English
 AB AMPA (.alpha.-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid)
 excitotoxicity was examd. in cultured neocortical neurons using the redn.
 of 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide (MTT) to
 measure cell viability. Neurons were exposed to AMPA at different culture
 periods during development of the neurons. In order to describe the
 pharmacol. of AMPA-mediated toxicity, several glutamate receptor
 antagonists were used: MK-801, NS 394, NBQX, GYKI 52466, GYKI 53405 and
 GYKI 53655. Increased excitotoxicity was obsd. when cortical neurons
 cultured for 5, 8 and 12 days in vitro (DIV) were exposed to a high concn.
 of AMPA (500 .mu.M) for 6 h. However, only at DIV 12 was part of the
 toxicity mediated directly through AMPA receptors since 10 .mu.M MK-801
 blocked all AMPA toxicity at DIV 5 and 8, but only some of the AMPA
 response at DIV 12. This indicated that NMDA receptors were being
 activated, causing some of the obsd. toxicity. The high dose of AMPA was
 not sufficient to damage all neurons since 59% remained viable after
 exposure to AMPA even for neurons that were cultured for 12 DIV. Since it
 is known that both glutamate and AMPA activate AMPA receptors with a fast
 and rapidly desensitizing response, this could explain the relatively low
 toxicity produced by 500 .mu.M AMPA. This was investigated by blocking
 AMPA receptor desensitization with cyclothiazide. Using a lower concn.
 (25 .mu.M) of AMPA, addn. of 50 .mu.M cyclothiazide increased the AMPA
 induced excitotoxicity in cultured cortical neurons at all DIV except for
 DIV 2. This combination of AMPA + cyclothiazide yielded 77% cell death
 for DIV 12 cultures. In contrast to the results obsd. with 500 .mu.M
 AMPA, the neurotoxicity mediated directly by AMPA receptors when
 desensitization was blocked was seen as early as 5 DIV since 10 .mu.M
 MK-801 did not completely block the response whereas 10 .mu.M NBQX did.
 The 2,3-benzodiazepine GYKI compds., which have been reported to be
 selective non-competitive AMPA receptor antagonists, were here obsd. to
 block the AMPA toxicity with the following rank order: GYKI 53655 > GYKI
 52466 .gtoreq. GYKI 53405, which is in agreement with their published
 potencies.
 IT **143692-48-2**, GYKI 53655
 RL: BAC (Biological activity or effector, except adverse); BUU (Biological
 use, unclassified); BIOL (Biological study); USES (Uses)
 (AMPA receptor mediated excitotoxicity in neocortical neurons is
 developmentally regulated and dependent upon receptor desensitization)
 RN 143692-48-2 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA
 INDEX NAME)

09/485,441



● HCl

~~LY~~4 ANSWER 13 OF 42 CAPLUS COPYRIGHT 2002 ACS

~~AN~~ 1997:707922 CAPLUS

DN 128:43739

TI The non-competitive AMPA antagonist LY 300168 (GYKI 53655) attenuates AMPA-induced hippocampal injury in neonatal rodents

AU Liu, X.-H.; Wang, P.; Barks, J. D. E.

CS Department of Pediatrics, University of Michigan Medical Center, Ann Arbor, MI, USA

SO Neurosci. Lett. (1997), 235(1,2), 93-97

CODEN: NELED5; ISSN: 0304-3940

PB Elsevier

DT Journal

LA English

AB In contrast with the neuroprotective efficacy of competitive and non-competitive N-methyl-D-aspartate (NMDA) antagonists vs. NMDA neurotoxicity, reported neuroprotective effects of non-NMDA antagonists in limiting .alpha.-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA) toxicity have been less robust. We tested the effect of the non-competitive AMPA receptor antagonist LY 300168 (GYKI 53655; E. Lilly) (0.25 or 2.5 mg/kg per dose i.p. .times.3 doses vs. vehicle) on AMPA-induced excitotoxic injury in postnatal day 7 (P7) rats. To assess specificity, we tested the effect of LY 300168 (2.5 mg/kg per dose .times.3 doses) on NMDA-induced excitotoxic injury. P7 rats received right intrahippocampal injections of either (S)-AMPA (2.5 nmol, n = 67) or NMDA (12.5 nmol, n = 11). Injection of AMPA resulted in right hippocampal atrophy with pyramidal cell loss. LY 300168 treatment produced dose-dependent attenuation of AMPA-induced right hippocampal injury; based on comparisons with left hippocampal vols., 2.5 nmol AMPA resulted in 42.+-.3% (mean.+-.SEM) right hippocampal vol. loss in controls, but only 10.+-.5% after LY 300168 2.5 mg/kg per dose (P<0.001; ANOVA). LY 300168 had no effect on NMDA-induced hippocampal injury. The data support the hypothesis that drugs that allosterically regulate AMPA receptor activity can modulate the response of immature brain to AMPA-mediated injury.

IT 143692-18-6, LY 300168

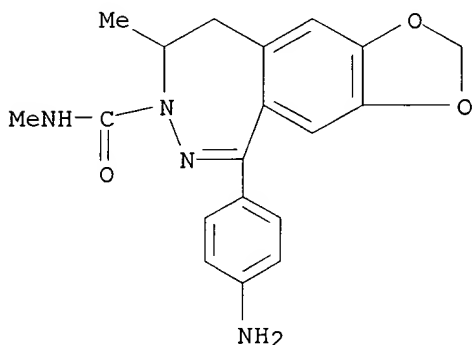
RL: BAC (Biological activity or effector, except adverse); THU

(Therapeutic use); BIOL (Biological study); USES (Uses)

(AMPA antagonist LY 300168 attenuates AMPA-induced hippocampal injury in neonates)

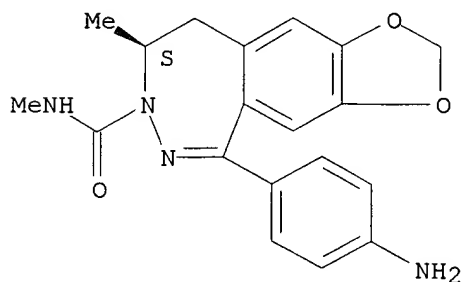
RN 143692-18-6 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)



~~LA~~ 4 ANSWER 14 OF 42 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:646583 CAPLUS
 DN 127:341510
 TI Apparent antinociceptive and anti-inflammatory effects of GYKI 52466
 AU Szekely, Jozsef I.; Kedves, Rita; Mate, Ildiko; Toeroek, Katalin; Tarnawa, Istvan
 CS Institute for Drug Research, P.O. Box 82, Budapest, 1325, Hung.
 SO Eur. J. Pharmacol. (1997), 336(2/3), 143-154
 CODEN: EJPHAZ; ISSN: 0014-2999
 PB Elsevier
 DT Journal
 LA English
 AB GYKI 52466 (1-(4-aminophenyl)-4-methyl-7,8-methylenedioxy-5H-2,3-benzodiazepine) was examd. in a battery of analgesia and anti-inflammatory tests in rats and mice, resp. Its 3-N-acetyl (GYKI 53773) and 3-N-methylcarbamoyl (GYKI 53784) derivs. were also examd. in some assays. These 2,3-benzodiazepines, known as prototypic non-competitive antagonists of AMPA receptors, showed a peculiar profile in some routinely used antinociceptive tests. They were found fairly potent in rat tail flick and mouse phenylquinone writhing assays but the dose-response curves were rather shallow as compared to that of morphine. Their action is stereoselective i.e. the (+) isomers were found inactive, in agreement with the previous in vitro studies. Their antinociceptive effect could not be reversed by naloxone and the GYKI compds. did not potentiate significantly the morphine-induced analgesia. In the mouse hot plate assay, the 2,3-benzodiazepines were active only in doses inducing visible motor incapacitation. In rats, GYKI 52466 weakly reduced the hypersensitivity accompanying acute carrageenan edema. However, it potently inhibited the hyperalgesia during Freund adjuvant-induced chronic arthritis. In the latter assay, yes GYKI 52466 also attenuated the body wt. loss without altering the paw edema. The present findings confirm reports in the literature which indicate AMPA receptors may contribute to certain forms of pathol. hyperalgesia e.g. to that detectable in inflamed tissues.
 IT 161832-69-5, GYKI 53785 161832-71-9, GYKI 53784
 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (apparent antinociceptive and anti-inflammatory effects of GYKI 52466 and its derivs. in relation to role of AMPA receptors in hyperalgesia in inflammation)
 RN 161832-69-5 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

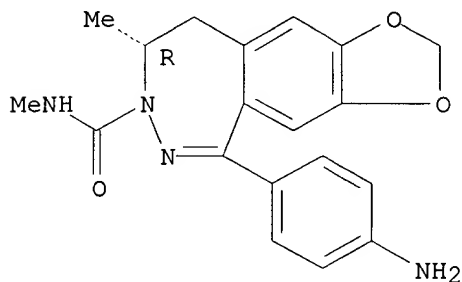


09/485,441

RN 161832-71-9 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



114 ANSWER 15 OF 42 CAPLUS COPYRIGHT 2002 ACS

AN 1997:622824 CAPLUS

DN 127:262710

TI Stereoselective preparation of dihydro-2,3-benzodiazepine derivatives

IN Anderson, Benjamin A.; Hansen, Marvin M.; Varie, David L.; Vicenzi, Jeffrey T.; Zmijewski, Milton J.

PA Eli Lilly and Co., USA

SO U.S., 14 pp. Cont.-in-part of U.S. Ser. No. 298,645, abandoned.

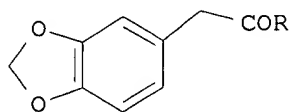
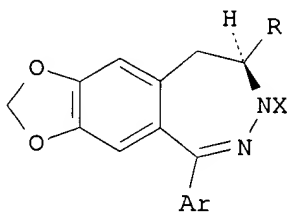
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 8

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PI	US 5665878	A	19970909	US 1995-413036	19950328
	TW 390881	B	20000521	TW 1995-84107230	19950712
	TW 393485	B	20000611	TW 1995-84107231	19950712
	CA 2157234	AA	19960301	CA 1995-2157234	19950830
	FI 9504064	A	19960301	FI 1995-4064	19950830
	NO 9503396	A	19960301	NO 1995-3396	19950830
	EP 699677	A1	19960306	EP 1995-306051	19950830
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	AU 9530355	A1	19960314	AU 1995-30355	19950830
	AU 702658	B2	19990225		
	JP 08081468	A2	19960326	JP 1995-221570	19950830
	BR 9503845	A	19960416	BR 1995-3845	19950830
	HU 72644	A2	19960528	HU 1995-2545	19950830
	CN 1123282	A	19960529	CN 1995-116311	19950830
	ZA 9507278	A	19970228	ZA 1995-7278	19950830
	ZA 9507279	A	19970228	ZA 1995-7279	19950830
	ZA 9507280	A	19970228	ZA 1995-7280	19950830
	RU 2142465	C1	19991210	RU 1995-114550	19950830
	RU 2151149	C1	20000620	RU 1995-114549	19950830
	IL 115100	A1	20000726	IL 1995-115100	19950830
	EP 1157992	A1	20011128	EP 2001-114686	19950830
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE				
	US 5919954	A	19990706	US 1997-843307	19970414
	US 5986114	A	19991116	US 1999-260449	19990302
	US 6160133	A	20001212	US 1999-346795	19990702
PRAI	US 1994-298645	B2	19940831		
	US 1995-413029	A	19950328		
	US 1995-413036	A	19950328		
	EP 1995-930998	A3	19950830		
	US 1997-843307	A3	19970414		
	US 1999-260449	A3	19990302		
OS	CASREACT 127:262710; MARPAT 127:262710				
GI					



AB Title compds. [I; R = H, alkyl; X = H, alkyl, acyl, aryl, CO₂H (deriv).; Ar = (substituted) aryl], were prepd. from aryl ketones (II; R as above) via asym. redn., reaction with an arylaldehyde to give an isochroman, oxidn., reaction with H₂NNHX, and reaction with a sulfonyl halide or direct Mitsunobu cyclization. Thus, 3,4-methylenedioxyphenylacetone was fermented with *Z. rouxii* ATCC 14462 to give 85-90% (S)-.alpha.-methyl-1,3-benzodioxole-5-ethanol in 100% enantiomeric excess. This was heated with p-nitrobenzaldehyde and conc. HCl in PhMe to give 87-93% (5RS,7S)-7,8-dihydro-7-methyl-5-(4-nitrophenyl)-5H-1,3-dioxolo[4,5-g][2]benzopyran. The latter in Me₂SO was bubbled with air and then treated with aq. NaOH to give (5RS,7S)-7,8-dihydro-7-methyl-5-(4-nitrophenyl)-5H-1,3-dioxolo[4,5-g][2]benzopyran-5-ol. Reflux of the latter with acetic hydrazide in conc. HCl gave (S)-acetic acid-[[6-(2-hydroxypropyl)-1,3-benzodioxol-5-yl](4-nitrophenyl)methylene]hydrazide. Treatment with MeSO₂Cl/Et₃N gave the methanesulfonyloxypropyl deriv., which was stirred with aq. NaOH in MeOH to give (R)-7-acetyl-8,9-dihydro-8-methyl-5-(4-nitrophenyl)-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepine.

IT **161832-70-8P 161832-71-9P**

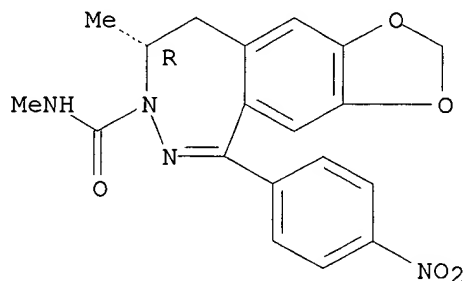
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(stereoselective prepn. of dihydro-2,3-benzodiazepine derivs.)

RN 161832-70-8 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 8,9-dihydro-N,8-dimethyl-5-(4-nitrophenyl)-, (R)- (9CI) (CA INDEX NAME)

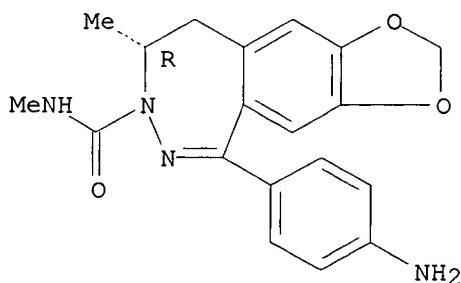
Absolute stereochemistry.



RN 161832-71-9 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8R)- (9CI) (CA INDEX NAME)

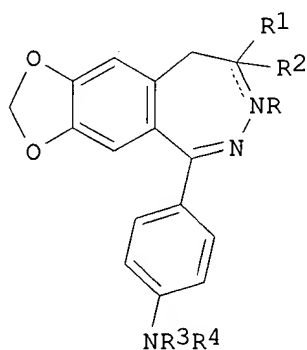
Absolute stereochemistry. Rotation (-).



~~DI~~ 14 ANSWER 16 OF 42 CAPLUS COPYRIGHT 2002 ACS
~~AN~~ 1997:436580 CAPLUS
 DN 127:108948
 TI Preparation of N-acyl-2,3-benzodiazepine derivatives for treating acute and chronic neurodegenerative disorders.
 IN Andrasi, Ferenc; Berzsenyi, Pal; Botka, Peter; Farkas, Sandor; Goldschmidt, Katalin; Hamori, Tamas; Korosi, Jeno; Moravcsik, Imre; Tarnawa, Istvan
 PA Cyogyszerkutato Intezet Kft, Hung.
 SO U.S., 22 pp. Cont.-in-part of U.S. Ser. No. 423,152, abandoned.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5639751	A	19970617	US 1995-477801	19950607
	HU 59684	A2	19920629	HU 1990-8398	19901221
	HU 219778	B	20010730		
	US 5459137	A	19951017	US 1993-80604	19930621
PRAI	HU 1990-8398	A	19901221		
	US 1991-809361	B2	19911217		
	US 1993-48347	B2	19930415		
	US 1993-80604	A3	19930621		
	US 1995-423152	B2	19950417		

GI



AB Title compds. [I; R = (substituted) alkanoyl, benzoyl, cyclopropanecarbonyl, alkylcarbamoyl, phenylcarbamoyl, null; R1 = H, null; R2 = alkyl; R1R2 = methylene; R3 = H, alkanoyl; R4 = H, (substituted) alkanoyl, benzoyl, palmitoyl, cyclopropanecarbonyl, alkylcarbamoyl, phenylcarbamoyl; dotted lines = optional double bonds; with a proviso], were prepd. I possess valuable central nervous system effects, particularly muscle relaxant, anticonvulsive and neuroprotective action. Thus, (-)-1-(4-aminophenyl)-3-methylcarbamoyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine (prepn. given) inhibited synaptic potentials in rat hippocampal slices with IC50 = 3.9 .mu.M.

IT 143691-38-7P 143691-45-6P 143691-47-8P
 143691-55-8P 143691-57-0P 143691-62-7P
 143691-65-0P 143691-71-8P 143691-88-7P
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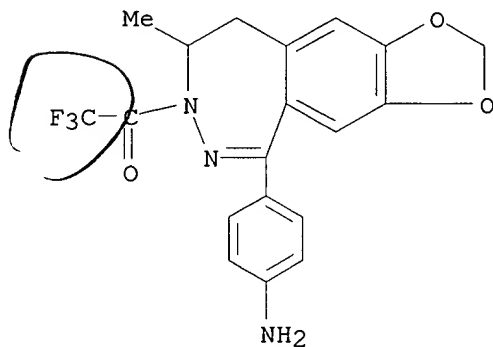
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 143692-37-9P 143692-38-0P 143692-48-2P
 143692-51-7P 143692-52-8P 143715-46-2P
 161832-68-4P 161832-69-5P 161832-70-8P
 161832-71-9P 173087-57-5P 173087-61-1P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of N-acyl-2,3-benzodiazepine derivs. for treating acute and chronic neurodegenerative disorders)

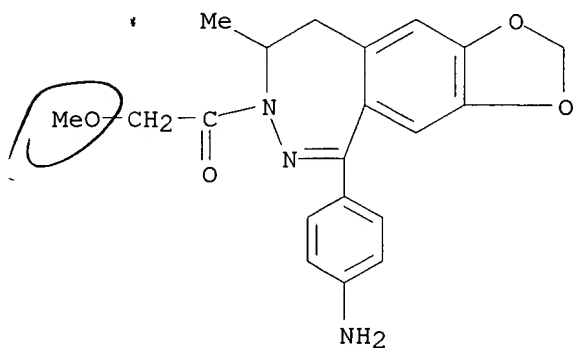
RN 143691-38-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-(trifluoroacetyl)- (9CI) (CA INDEX NAME)



RN 143691-45-6 CAPLUS

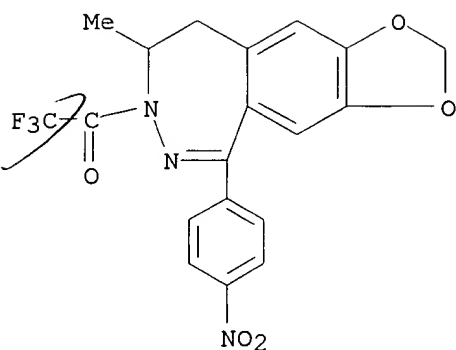
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-7-(methoxyacetyl)-8-methyl- (9CI) (CA INDEX NAME)



RN 143691-47-8 CAPLUS

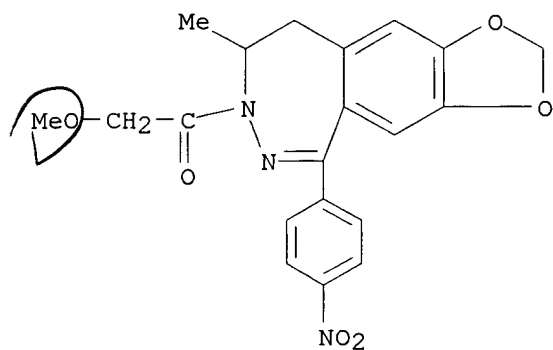
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-8-methyl-5-(4-nitrophenyl)-7-(trifluoroacetyl)- (9CI) (CA INDEX NAME)

09/485,441



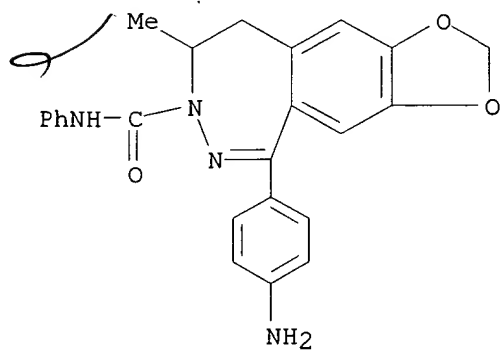
RN 143691-55-8 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-7-(methoxyacetyl)-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



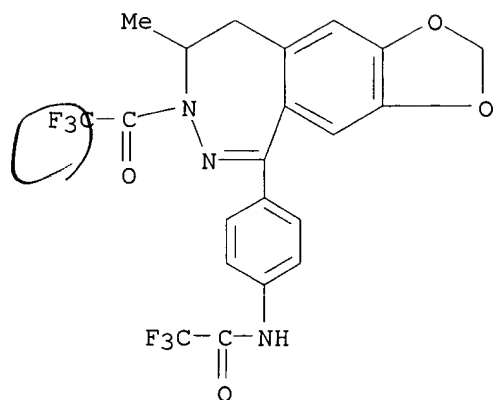
RN 143691-57-0 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-N-phenyl- (9CI) (CA INDEX NAME)

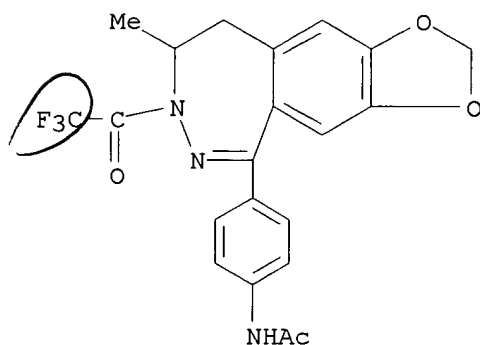


RN 143691-62-7 CAPLUS

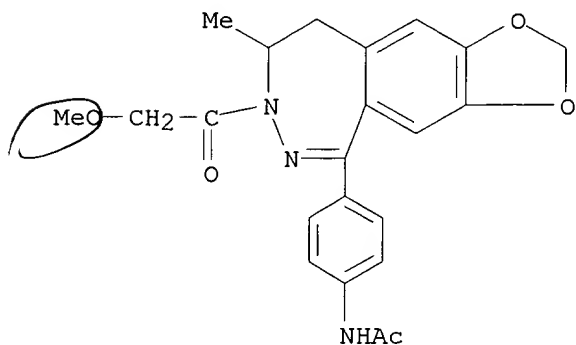
CN Acetamide, N-[4-[8,9-dihydro-8-methyl-7-(trifluoroacetyl)-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



RN 143691-65-0 CAPLUS
 CN Acetamide, N-[4-[8,9-dihydro-8-methyl-7-(trifluoroacetyl)-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)

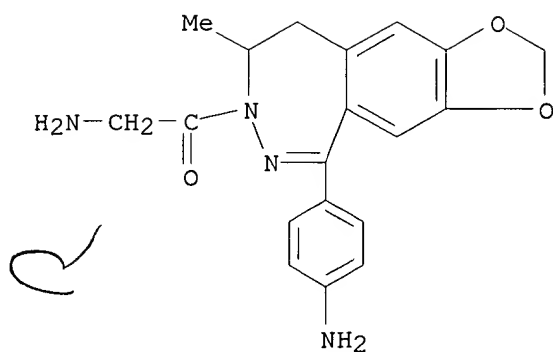


RN 143691-71-8 CAPLUS
 CN Acetamide, N-[4-[8,9-dihydro-7-(methoxyacetyl)-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 143691-88-7 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(aminoacetyl)-5-(4-aminophenyl)-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)

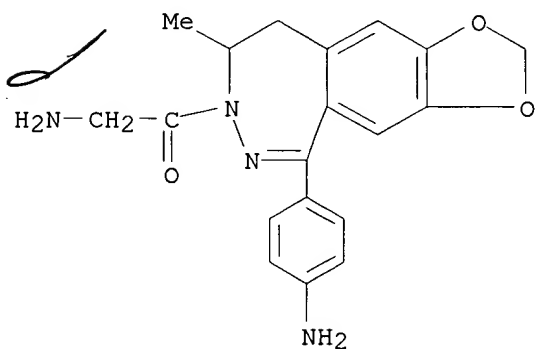
09/485,441



RN 143691-89-8 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(aminoacetyl)-5-(4-aminophenyl)-8,9-dihydro-8-methyl-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

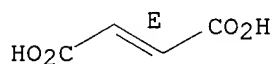
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CMF C19 H20 N4 O3



CM 2

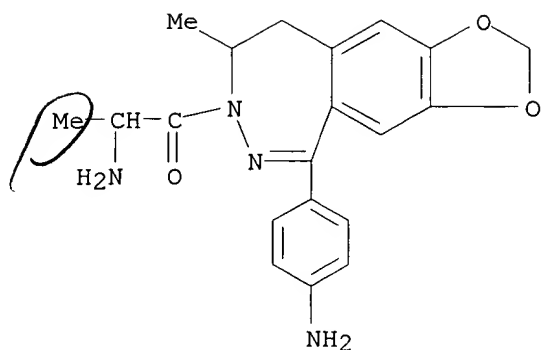
CRN 110-17-8
CMF C4 H4 O4
CDES 2:E

Double bond geometry as shown.



RN 143691-90-1 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(2-amino-1-oxopropyl)-5-(4-aminophenyl)-8,9-dihydro-8-methyl-, (9CI) (CA INDEX NAME)

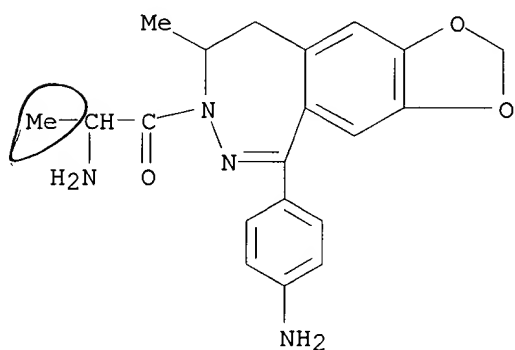
09/485,441



RN 143691-91-2 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(2-amino-1-oxopropyl)-5-(4-aminophenyl)-8,9-dihydro-8-methyl-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

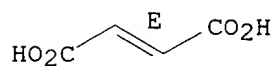
CRN 143691-90-1
CMF C20 H22 N4 O3



CM 2

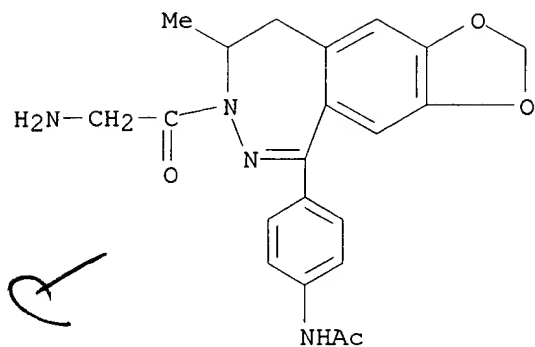
CRN 110-17-8
CMF C4 H4 O4
CDES 2:E

Double bond geometry as shown.

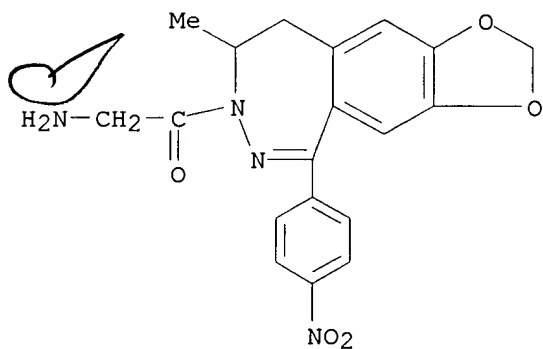


RN 143691-93-4 CAPLUS
CN Acetamide, N-[4-[7-(aminoacetyl)-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)

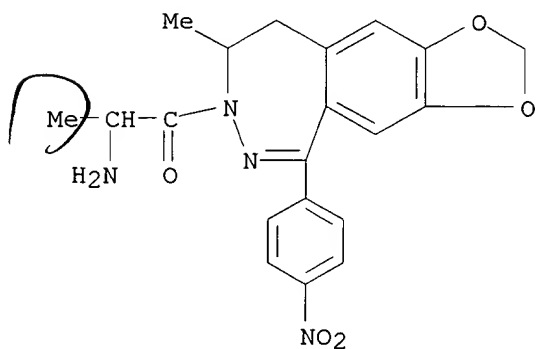
09/485,441



RN 143692-02-8 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(aminoacetyl)-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

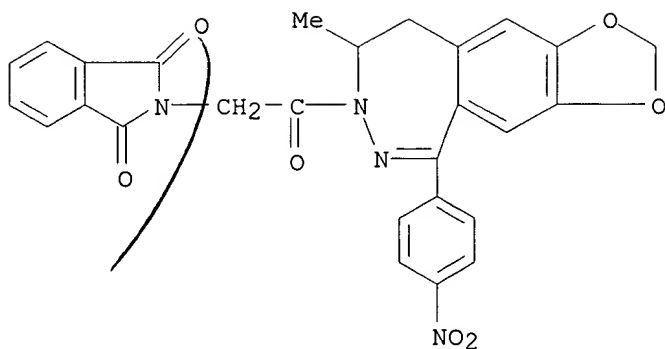


RN 143692-04-0 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(2-amino-1-oxopropyl)-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



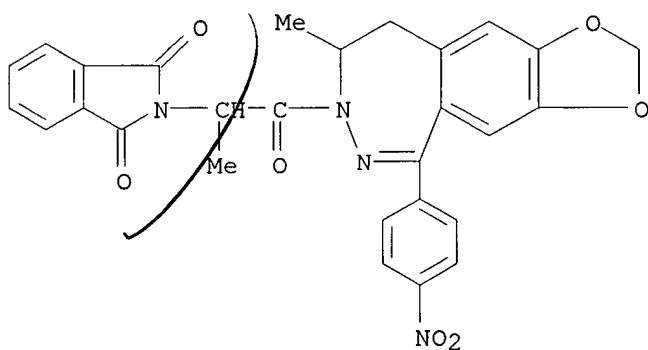
RN 143692-05-1 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)acetyl]-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

09/485,441



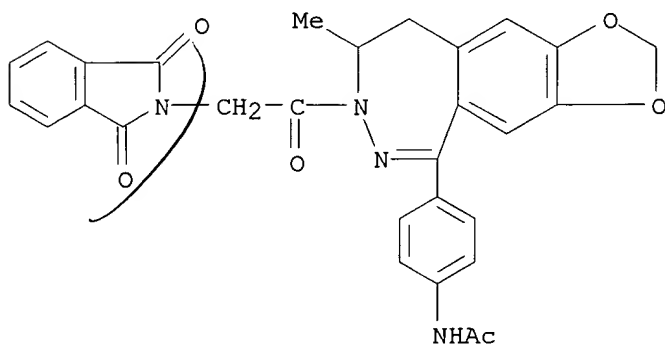
RN 143692-07-3 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-1-oxopropyl]-8,9-dihydro-8-methyl-1-(4-nitrophenyl)- (9CI)
(CA INDEX NAME)



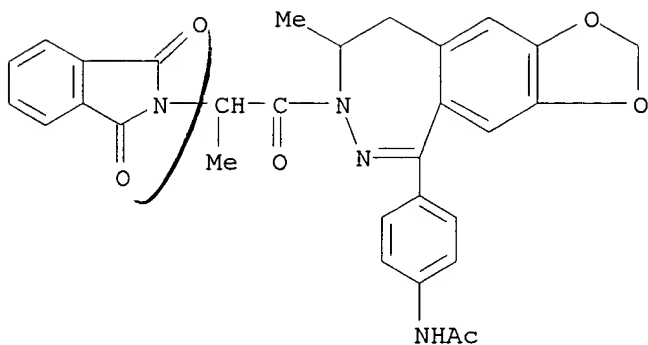
RN 143692-09-5 CAPLUS

CN Acetamide, N-[4-[7-[2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)acetyl]-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



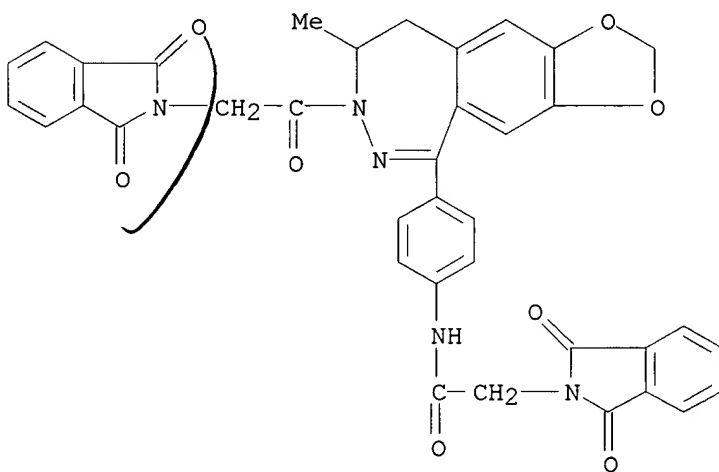
RN 143692-12-0 CAPLUS

CN Acetamide, N-[4-[7-[2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-1-oxopropyl]-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



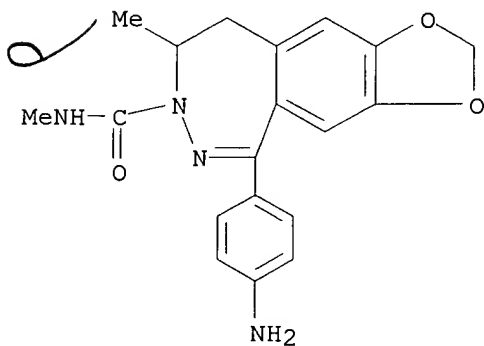
RN 143692-13-1 CAPLUS

CN 2H-Isoindole-2-acetamide, N-[4-[7-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)acetyl]-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]-1,3-dihydro-1,3-dioxo- (9CI) (CA INDEX NAME)



RN 143692-18-6 CAPLUS

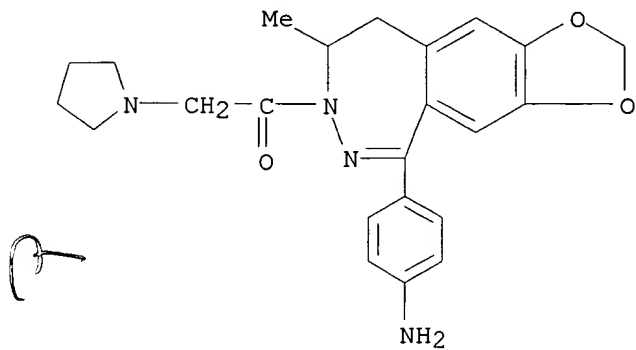
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)



09/485,441

RN 143692-19-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-(1-pyrrolidinylacetyl)- (9CI) (CA INDEX NAME)



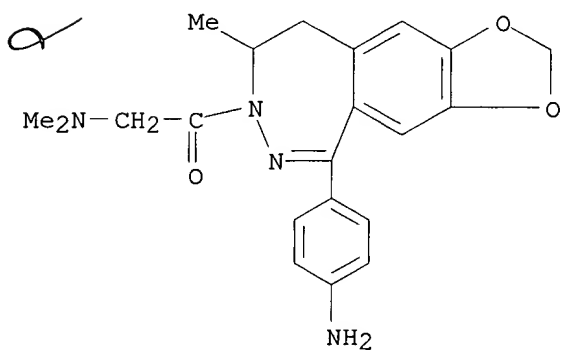
RN 143692-21-1 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-7-[(dimethylamino)acetyl]-8,9-dihydro-8-methyl-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 143692-20-0

CMF C21 H24 N4 O3



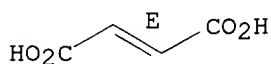
CM 2

CRN 110-17-8

CMF C4 H4 O4

CDES 2:E

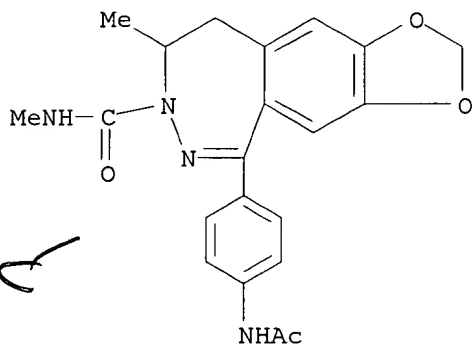
Double bond geometry as shown.



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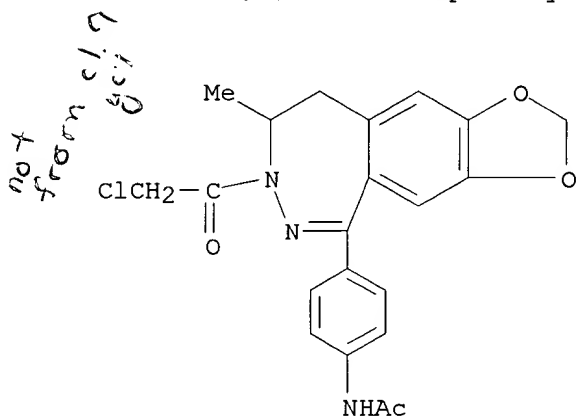
RN 143692-26-6 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-[4-(acetylamino)phenyl]-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)



RN 143692-32-4 CAPLUS

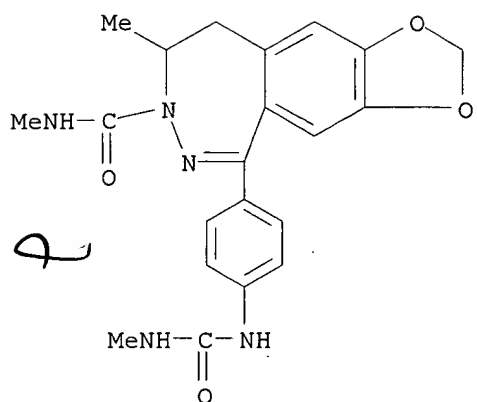
CN Acetamide, N-[4-[7-(chloroacetyl)-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



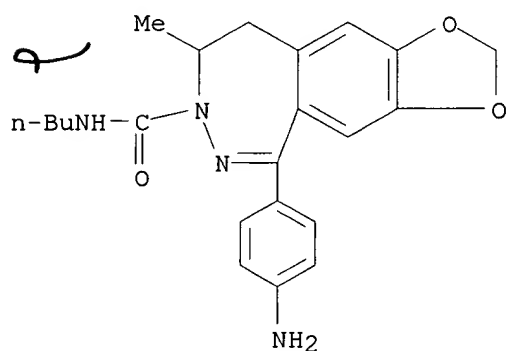
RN 143692-35-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
8,9-dihydro-N,8-dimethyl-5-[4-[[(methylamino) carbonyl] amino]phenyl]- (9CI)
(CA INDEX NAME)

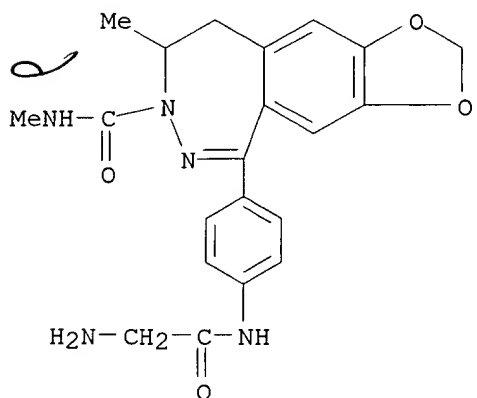
09/485,441



RN 143692-36-8 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-N-butyl-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)



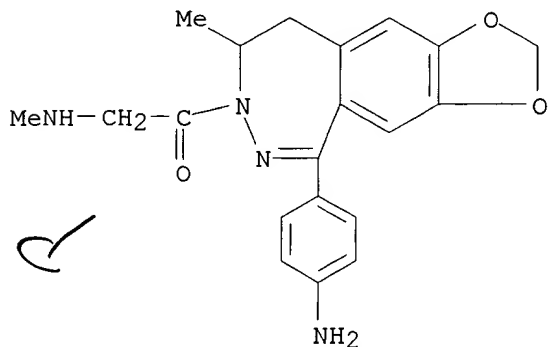
RN 143692-37-9 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-[4-[(aminoacetyl)amino]phenyl]-8,9-dihydro-N,8-dimethyl- (9CI) (CA
INDEX NAME)



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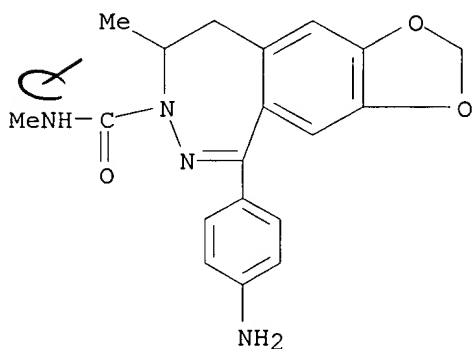
RN 143692-38-0 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-[(methylamino)acetyl]- (9CI) (CA INDEX NAME)



RN 143692-48-2 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

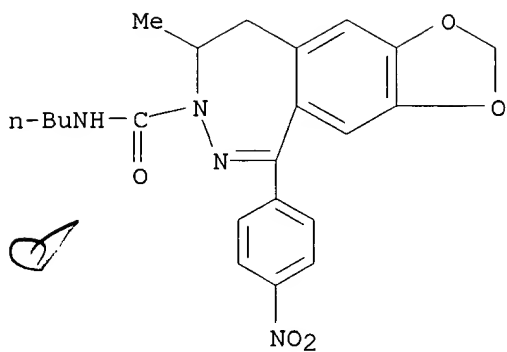


● HCl

RN 143692-51-7 CAPLUS

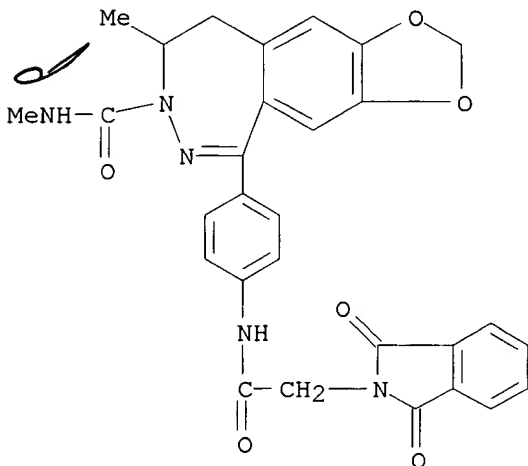
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, N-butyl-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

09/485,441



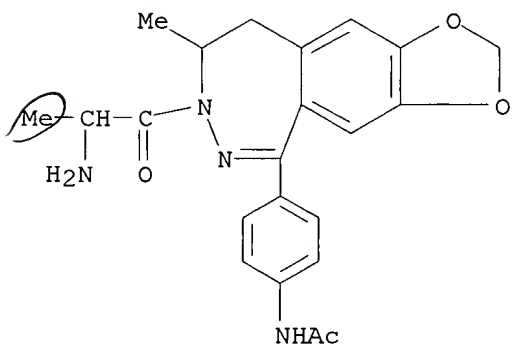
RN 143692-52-8 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-[4-[[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl) acetyl] amino]phenyl]-8,9-
dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)



RN 143715-46-2 CAPLUS

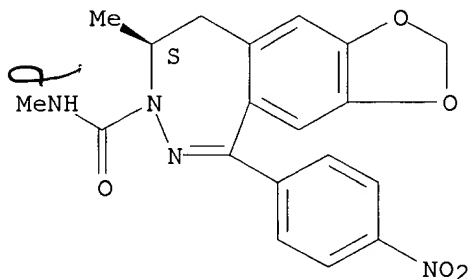
CN Acetamide, N-[4-[7-(2-amino-1-oxopropyl)-8,9-dihydro-8-methyl-7H-1,3-
dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



09/485,441

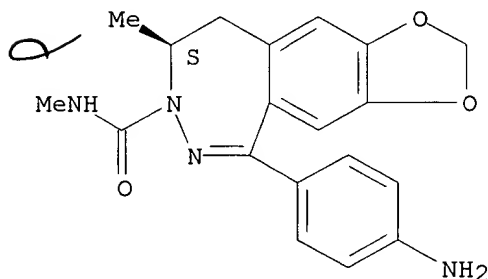
RN 161832-68-4 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
8,9-dihydro-N,8-dimethyl-5-(4-nitrophenyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



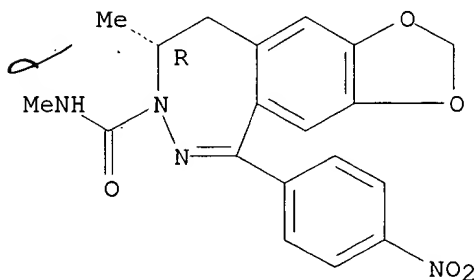
RN 161832-69-5 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 161832-70-8 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
8,9-dihydro-N,8-dimethyl-5-(4-nitrophenyl)-, (R)- (9CI) (CA INDEX NAME)

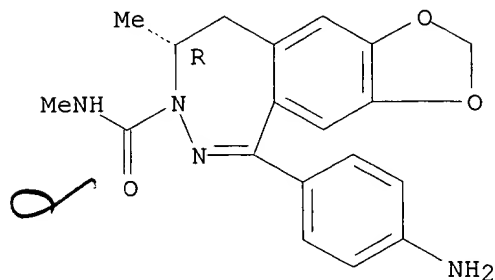
Absolute stereochemistry.



RN 161832-71-9 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8R)- (9CI) (CA INDEX NAME)

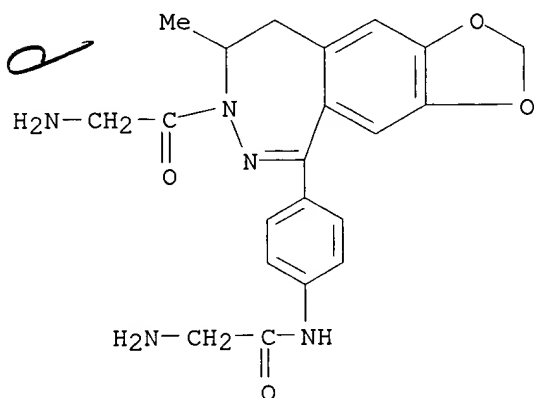
09/485,441

Absolute stereochemistry. Rotation (-).



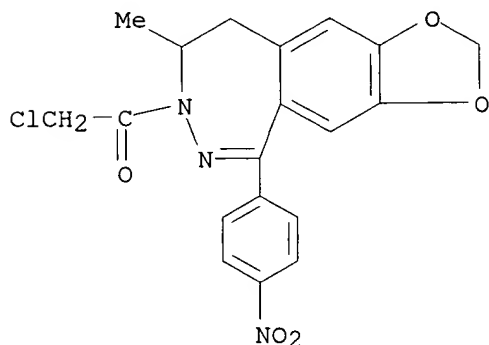
RN 173087-57-5 CAPLUS

CN Acetamide, 2-amino-N-[4-[7-(aminoacetyl)-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 173087-61-1 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(chloroacetyl)-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



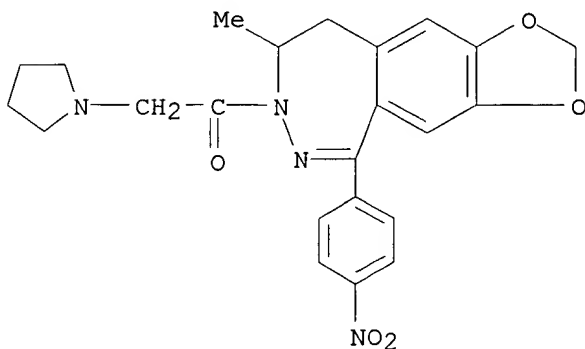
IT 143692-50-6P 173087-60-0P 173087-62-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of N-acyl-2,3-benzodiazepine derivs. for treating acute and chronic neurodegenerative disorders)

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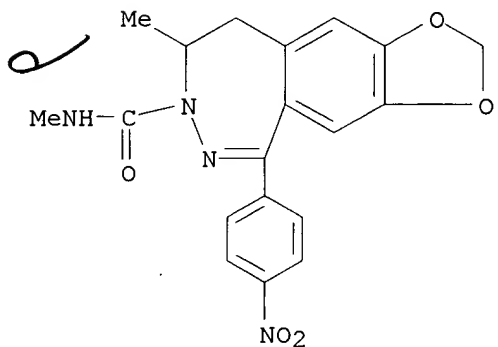
RN 143692-50-6 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-8-methyl-5-(4-nitrophenyl)-7-(1-pyrrolidinylacetyl)- (9CI) (CA INDEX NAME)



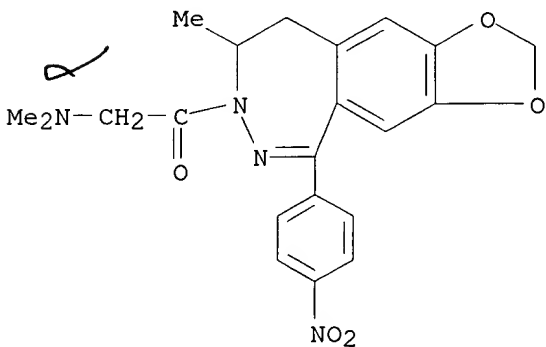
RN 173087-60-0 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 8,9-dihydro-N,8-dimethyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

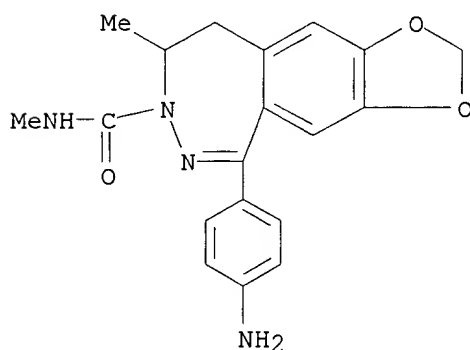


RN 173087-62-2 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[(dimethylamino)acetyl]-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



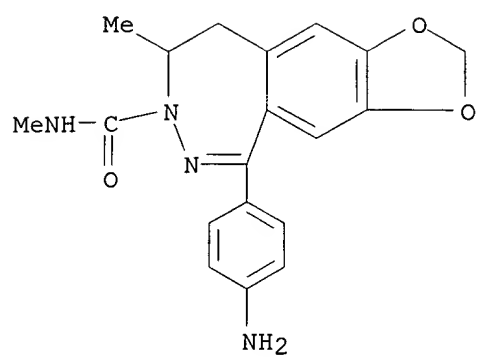
LX4 ANSWER 17 OF 42 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:420268 CAPLUS
 DN 127:130823
 TI GYKI 53655, a 2,3-benzodiazepine, non-competitively protects cultured neurons against AMPA toxicity
 AU Kovacs, Attila D.; Szabo, Geza
 CS Department of Biochemistry, EGIS Biological Laboratories, EGIS Pharmaceuticals Ltd., P.O. Box 100, Budapest, H-1475/10, Hung.
 SO Eur. J. Pharmacol. (1997), 331(1), 93-96
 CODEN: EJPHAZ; ISSN: 0014-2999
 PB Elsevier
 DT Journal
 LA English
 AB The nature of the neuroprotection by the competitive .alpha.-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptor antagonist, 6-nitro-7-sulfamoyl-benzo[f]quinoxaline-2,3-dione (NBQX), and the non-competitive AMPA receptor antagonist, 1-(4-aminophenyl)-3-methylcarbamoyl-4-methyl-3,4-dihydro-7,8-methylenedioxy-5H-2,3-benzodiazepine (GYKI 53655), was investigated in mature telencephalic neuron cultures of the rat. NBQX protected cultured neurons against AMPA-induced delayed toxicity in a competitive manner: the AMPA concn.-response curve was shifted to the right in parallel and concn. dependently. In contrast, GYKI 53655 decreased the maximal neurotoxic effect of AMPA considerably but without affecting the EC50 for AMPA toxicity, which indicated the non-competitive mode of its action. Thus we found a clear relation between the nature of in vitro neuroprotection and the mode of AMPA channel block.
 IT **143692-48-2**, GYKI 53655
 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (GYKI 53655 and NBQX neuroprotection against AMPA neurotoxicity)
 RN 143692-48-2 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

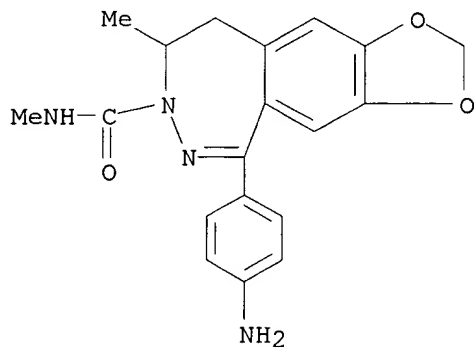
~~LA~~ ANSWER 18 OF 42 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:242666 CAPLUS
 DN 126:312536
 TI Activation and desensitization of hippocampal kainate receptors
 AU Wilding, Timothy J.; Huettner, James E.
 CS Department of Cell Biology and Physiology, Washington University School of
 Medicine, St. Louis, MO, 63110, USA
 SO J. Neurosci. (1997), 17(8), 2713-2721
 CODEN: JNRSDS; ISSN: 0270-6474
 PB Society for Neuroscience
 DT Journal
 LA English
 AB We have used whole-cell recordings and rapid agonist applications to
 characterize the physiol. properties of kainate receptors expressed by rat
 hippocampal neurons in dissocd. cell culture. Activation of NMDA and AMPA
 receptors was prevented by inclusion of the noncompetitive antagonists
 MK-801 (2 .mu.M) and GYKI 53655 (100 .mu.M), resp. In the presence of
 these inhibitors, both kainate (EC50 = 23 .mu.M) and glutamate (EC50 = 310
 .mu.M) evoked desensitizing currents. Maximal peak currents for kainate
 with GYKI 53655 were 15.+-.3% as large as in control solns. without GYKI.
 In contrast to currents mediated by AMPA receptors, kainate currents
 recorded in GYKI were blocked potently by lanthanum (IC50 = 2 .mu.M) and
 were desensitized by 1 .mu.M 2S, 4R-4-methylglutamate (SYM 2081).
 Coapplication of either 5 .mu.M AMPA or 500 .mu.M aspartate had little
 effect on responses to kainate, although AMPA alone elicited current at 1
 mM. In most cells, the currents evoked by kainate, glutamate, and SYM
 2081 varied linearly with membrane potential and reversed near 0 mV.
 Kainate elicited substantial current at steady state (.apprx.30% of peak),
 whereas responses to glutamate and SYM 2081 desensitized almost completely
 within 0.2-2 s. Inhibition produced by a 10 s desensitizing prepulse was
 half-maximal at 0.22 .mu.M for SYM 2081 and 13 .mu.M for glutamate.
 Recovery from desensitization to kainate and glutamate was >80% complete
 within 60 s but was three- to fourfold slower after exposure to SYM 2081.
 Exposure to Con A blocked desensitization of the currents but also reduced
 the peak current amplitudes. Collectively, these results confirm that
 kainate-preferring receptors underlie the currents evoked by kainate,
 glutamate, or SYM-2081 in the presence of GYKI 53655; they are not
 mediated by electrogenic transport or by AMPA-preferring receptors that
 are insensitive to GYKI. In contrast to previous work on embryonic
 hippocampal neurons, our results show that the properties of kainate
 receptors expressed by cells from older animals are distinct from those
 displayed by homomeric assemblies of the GluR6 subunit.
 IT **143692-48-2**, GYKI 53655
 RL: BAC (Biological activity or effector, except adverse); BIOL
 (Biological study)
 (activation and desensitization of hippocampal kainate receptors in
 cultured neurons from 2-5-day old rats)
 RN 143692-48-2 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA
 INDEX NAME)

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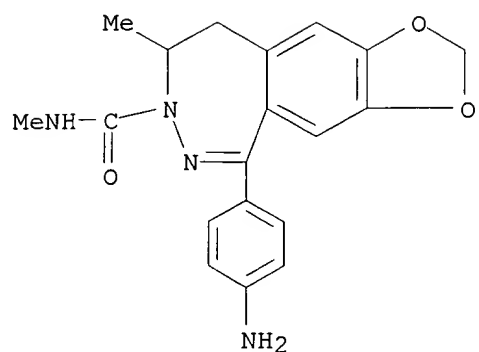
● HCl

~~14~~ 4 ANSWER 19 OF 42 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:225394 CAPLUS
 DN 126:287973
 TI Comparison of neuroprotective efficacy of competitive and noncompetitive
 AMPA antagonists in vitro
 AU Kovacs, Attila D.; Szabo, Geza
 CS Dep. Biochemistry, EGIS Pharmaceuticals Ltd., Budapest, H-1475, Hung.
 SO Environ. Toxicol. Pharmacol. (1997), 3(1), 69-72
 CODEN: ETOPFR; ISSN: 1382-6689
 PB Elsevier
 DT Journal
 LA English
 AB The neuroprotective efficacy of the most potent known competitive AMPA
 (.alpha.-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid) antagonist
 [2,3-dihydroxy-6-nitro-7-sulfamoylbenzo(f)quinoxaline (NBQX)] and 3
 recently developed 2,3-benzodiazepine-type noncompetitive AMPA antagonists
 (GYKI 52466, 53405 and 53655) was investigated in primary cultures of rat
 telencephalic neurons. NBQX protected cultured neurons against AMPA (20
 .mu.M for 21-23 h)-induced toxicity, with an EC50 of 0.5 .mu.M. In the
 same test GYKI 52466, 53405 and 53655 had EC50 values of 10.6, 9.3 and 5.1
 .mu.M, resp. Thus, the competitive antagonist NBQX was 10-fold more
 effective as a neuroprotectant in vitro than the most potent
 noncompetitive GYKI compd. (GYKI 53655).
 IT **143692-48-2**, GYKI 53655
 RL: BAC (Biological activity or effector, except adverse); THU
 (Therapeutic use); BIOL (Biological study); USES (Uses)
 (neurotoxicity from AMPA antagonism by)
 RN 143692-48-2 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA
 INDEX NAME)



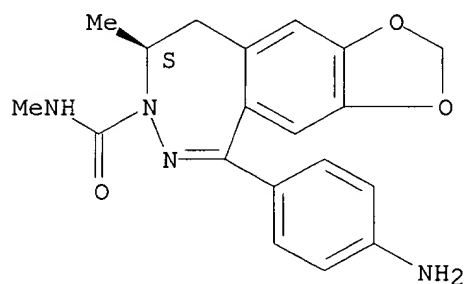
● HCl

~~LA~~ ANSWER 20 OF 42 CAPLUS COPYRIGHT 2002 ACS
~~AN~~ 1997:199528 CAPLUS
 DN 126:288383
 TI Activity of 2,3-benzodiazepines at native rat and recombinant human
 glutamate receptors in vitro: stereospecificity and selectivity profiles
 AU Bleakman, David; Ballyk, Barbara A.; Schoepp, Darryle D.; Palmer, Andrew
 J.; Bath, Catherine P.; Sharpe, Erica F.; Woolley, Marie L.; Bufton, Hywel
 R.; Kamboj, Rajender K.; et al.
 CS Eli Lilly and Co., Lilly Research Centre, Erl Wood Manor, Windlesham, GU20
 6PH, UK
 SO Neuropharmacology (1997), Volume Date 1996, 35(12), 1689-1702
 CODEN: NEPHBW; ISSN: 0028-3908
 PB Elsevier
 DT Journal
 LA English
 AB The activity and selectivity of the glutamate receptor antagonists
 belonging to the 2,3-benzodiazepine class of compds. have been examd. at
 recombinant human non-NMDA glutamate receptors expressed in HEK293 cells
 and on native rat NMDA and non-NMDA receptors in vitro. The racemic
 2,3-benzodiazepines GYKI52466, LY293606 (GYKI53405) and LY300168
 (GYKI53655) inhibited AMPA (10 .mu.M)-mediated responses in recombinant
 human GluR1 receptors expressed in HEK293 cells with approx. IC50 values
 of 18 .mu.M, 24 .mu.M and 6 .mu.M, resp., and AMPA (10 .mu.M) responses in
 recombinant human GluR4 expressing HEK293 cells with approx. IC50 values
 of 22 .mu.M, 28 .mu.M and 5 .mu.M, resp. GYKI 52466, LY293606 and
 LY300168 were non-competitive antagonists of AMPA receptor-mediated
 responses in acutely isolated rat cerebellar Purkinje neurons with approx.
 IC50 values of 10 .mu.M, 8 .mu.M and 1.5 .mu.M, resp. The activity of
 racemic compds. LY293606 and LY300168 was established to reside in the (-)
 isomer of each compd. At a concn. of 100 .mu.M, GYKI52466, LY293606 and
 LY300168 produced <30% inhibition of kainate-activated currents evoked in
 HEK293 cells expressing either human homomeric GluR5 or GluR6 receptors or
 heteromeric GluR6+KA2 kainate receptors. The activity of the
 2,3-benzodiazepines at 100 .mu.M was weak at kainate receptors, but was
 stereoselective. Similar levels of inhibition were obsd. for
 kainate-induced currents in dorsal root ganglion neurons. Intact tissue
 prepn. were also used to examine the stereoselective actions of the
 2,3-benzodiazepines. In the cortical wedge prepn., the active isomer of
 LY300168, LY303070, produced a non-competitive antagonism of AMPA-evoked
 depolarizations with smaller changes in depolarizations induced by kainate
 and no effect on NMDA-dependent depolarizations. LY303070 was also
 effective in preventing 30 .mu.M AMPA-induced depolarizations in isolated
 spinal cord dorsal roots with an approx. IC50 value of 1 .mu.M. Synaptic
 transmission in the hemisected spinal cord prepn. was stereoselectively
 antagonized by the active isomers of LY300168 and LY293606. In summary,
 these results indicate that 2,3-benzodiazepines are potent, selective and
 stereospecific antagonists of the AMPA subtype of the non-NMDA glutamate
 receptor.
 IT **143692-18-6**, LY 300168 **161832-69-5**, LY 303071
161832-71-9, LY 303070
 RL: BAC (Biological activity or effector, except adverse); BIOL
 (Biological study)
 (stereospecificity and selectivity profiles of activity of
 benzodiazepines at native rat and recombinant human glutamate receptors
 in vitro)
 RN 143692-18-6 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)



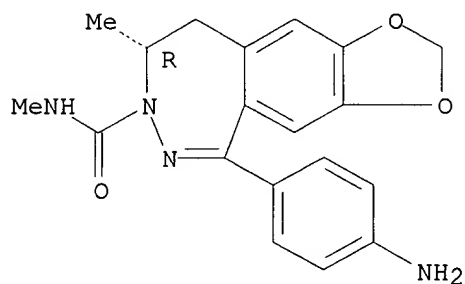
RN 161832-69-5 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



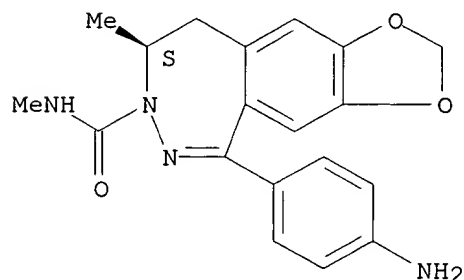
RN 161832-71-9 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



114 ANSWER 21 OF 42 CAPLUS COPYRIGHT 2002 ACS
 AD 1997:199527 CAPLUS
 DN 126:287923
 TI Stereoselective effects of 2,3-benzodiazepines in vivo: electrophysiology and neuroprotection studies
 AU Lodge, David; Bond, Ann; O'Neill, Michael J.; Hicks, Caroline A.; Jones, Martyn G.
 CS Lilly Research Centre, Erl Wood Manor, Windlesham, GU20 6PH, UK
 SO Neuropharmacology (1997), Volume Date 1996, 35(12), 1681-1688
 CODEN: NEPHBW; ISSN: 0028-3908
 PB Elsevier
 DT Journal
 LA English
 AB The stereoselectivity and potency of 3N-substituted 2,3-benzodiazepines were examd. in vivo against excitation of spinal neurons induced by electrophoretic ejection of N-methyl-D-aspartate (NMDA), .alpha.-amino-3-hydroxy-5-methylisoxazole-4-propionate (AMPA) and kainate in anesthetized rats. AMPA receptor antagonist activity resided in the (-) isomers, LY300164 and LY303070, which were effective given electrophoretically, i.v. (2.5-5 mg/kg) or orally (10 mg/kg). The same stereoselectivity was obsd. in neuroprotection studies. Thus, systemic administration of the (-) isomer, but not the (+) isomer, of these 2,3-benzodiazepines before or immediately after bilateral carotid artery occlusion in the gerbil was neuroprotective. For example, 10 mg/kg of LY300164 i.p. or orally provided survival of .ltoreq.25% of hippocampal CA1 neurons.
 IT **161832-69-5**, LY 303071 **161832-71-9**, LY 303070
 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (stereoselective effects of benzodiazepines in vivo in electrophysiol. and neuroprotection studies in relation to AMPA receptor antagonist activity)
 RN 161832-69-5 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8S)- (9CI) (CA INDEX NAME)

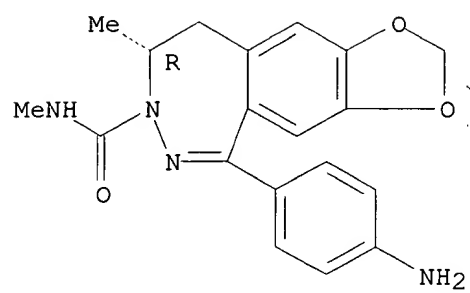
Absolute stereochemistry. Rotation (+).



RN 161832-71-9 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8R)- (9CI) (CA INDEX NAME)

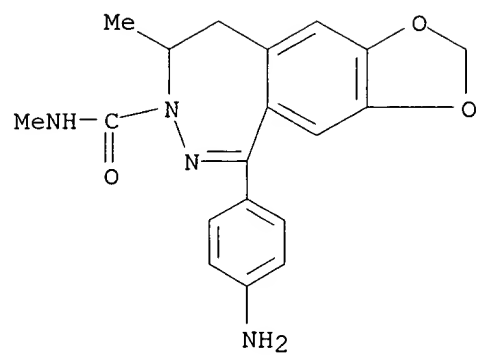
Absolute stereochemistry. Rotation (-).

09/485,441



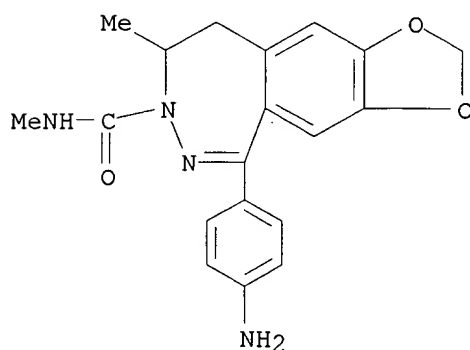
LX4 ANSWER 22 OF 42 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:183636 CAPLUS
 DN 126:220635
 TI Pharmacology of directionally selective ganglion cells in the rabbit retina
 AU Kittila, Christopher A.; Massey, Stephen C.
 CS Department of Ophthalmology and Visual Science, University of Texas Medical School, Houston, TX, 77030, USA
 SO J. Neurophysiol. (1997), 77(2), 675-689
 CODEN: JONEA4; ISSN: 0022-3077
 PB American Physiological Society
 DT Journal
 LA English
 AB In this report we describe extracellular recordings made from ON and ON-OFF directionally selective (DS) ganglion cells in the rabbit retina during perfusion with agonists and antagonists to acetylcholine (ACh), glutamate, and .gamma.-aminobutyric acid (GABA). Nicotinic ACh agonists strongly excited DS ganglion cell in a dose-dependent manner. Dose-response curves showed a wide range of potencies, with (.+-.)-exo-2-(6-chloro-3-pyridinyl)-7-azabicyclo[2.2.1] heptane dihydrochloride (epibatidine) .mchgt. nicotine > 1,1-dimethyl-4-phenylpiperazinium iodide = carbachol. In addn., the mixed cholinergic agonist carbachol produced a small excitation, mediated by muscarinic receptors, that could be blocked by atropine. The specific nicotinic antagonists hexamethonium bromide (100 .mu.M), dihydro-.beta.-erythroidine (50 .mu.M), mecamlamine (50 .mu.M), and tubocurarine (50 .mu.M) blocked the responses to nicotinic agonists. In addn., nicotinic antagonists reduced the light-driven input to DS ganglion cells by .apprx.50%. However, attenuated responses were still DS. We deduce that cholinergic input is not required for directional selectivity. These expts. reveal the importance of bipolar cell input mediated by glutamate. N-methyl-D-aspartic acid (NMDA) excited DS ganglion cells, but NMDA antagonists did not abolish directional selectivity. However, a combined cholinergic and NMDA blockade reduced the responses of DS ganglion cells by >90%. This indicates that most of the noncholinergic excitatory input appears to be mediated by NMDA receptors, with a small residual made up by .alpha.-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA)/kainate (KA) receptors. Responses to AMPA and KA were highly variable and often evoked a mixt. of excitation and inhibition due to the release of ACh and GABA. Under cholinergic blockade AMPA/KA elicited a strong GABA-mediated inhibition in DS ganglion cells. AMPA/KA antagonists, such as 2,3-dihydroxy-6-nitro-7-sulfamoylbenzo(F)quinoxaline dione and GYKI-53655, promoted null responses and abolished directional selectivity due to the blockade of GABA release. We conclude that GABA release, mediated by non-NMDA glutamate receptors, is an essential part of the mechanism of directional selectivity. The source of the GABA is unknown, but may arise from starburst amacrine cells.
 IT **143692-48-2**, GYKI-53655
 RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
 (pharmacol. of directionally selective ganglion cells in the rabbit retina)
 RN 143692-48-2 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

09/485,441



● HCl

~~LI4~~ ANSWER 23 OF 42 CAPLUS COPYRIGHT 2002 ACS
~~AN~~ 1997:13664 CAPLUS
 DN 126:113223
 TI Glutamate receptors of the kainate type and synaptic transmission
 AU Lerma, Juan; Morales, Miguel; Vicente, Maria A.; Herreras, Oscar
 CS Dep. Neural Plasticity, Inst. Cajal, Madrid, 28002, Spain
 SO Trends Neurosci. (1997), 20(1), 9-12
 CODEN: TNSCDR; ISSN: 0166-2236
 PB Elsevier
 DT Journal; General Review
 LA English
 AB A review, with 45 refs. Glutamic acid is an important excitatory neurotransmitter in the mammalian CNS. It has been established that synaptic transmission is mediated mostly by the ionotropic glutamate receptors AMPA and NMDA, with fast and slow kinetics, resp. The recent demonstration in hippocampal neurons of a class of glutamate receptors that are activated by kainate and not by AMPA (i.e., kainate-selective receptors) opens the possibility that receptors, others than those of the AMPA type, might also be involved in fast neurotransmission. The lack of specific pharmacol. tools to dissect out AMPA from kainate receptors has hampered the functional study of kainate receptors. However, the recent finding that a 2,3-benzodiazepine (GYKI 53655) behaves as a selective antagonist of AMPA receptors allows us to address the question of the role of rapidly inactivating kainate receptors in synaptic transmission.
 IT **143692-48-2**, GYKI 53655
 RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
 (glutamate receptors of kainate type and synaptic transmission)
 RN 143692-48-2 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

09/485,441

~~LI4~~ ANSWER 24 OF 42 CAPLUS COPYRIGHT 2002 ACS

~~AN~~ 1996:460121 CAPLUS

~~DN~~ 125:151280

TI Chiral separation of optically active 2,3-benzodiazepine derivatives by high performance liquid chromatography

AU Bidlo-Igloy, Margit

CS Inst. Drug Res., Budapest, H-1325, Hung.

SO J. Pharm. Biomed. Anal. (1996), 14(8-10), 1389-1394

CODEN: JPBADA; ISSN: 0731-7085

DT Journal

LA English

AB Cellulose derivs. (Chiralcel OF and OJ) were used for the sepn. of 4,5-dihydro-2,3-benzodiazepines by HPLC. A higher degree of resolu. was obtained on the Chiralcel OF column if the mol contained an arom. NO₂ or NH₂ group.

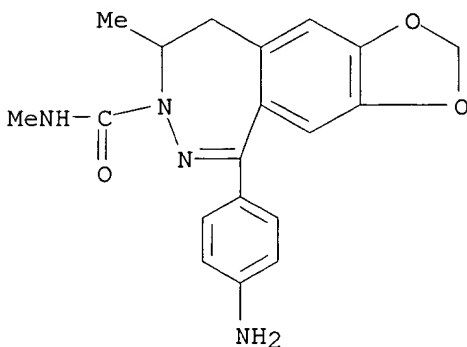
IT **143692-18-6 161832-69-5 161832-71-9**

RL: ANT (Analyte); ANST (Analytical study)

(chiral sepn. of benzodiazepine derivs. by HPLC)

RN 143692-18-6 CAPLUS

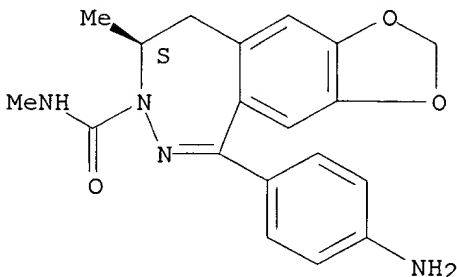
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)



RN 161832-69-5 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

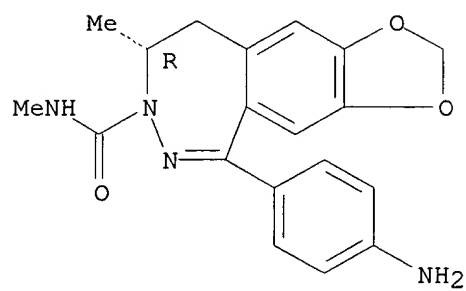


RN 161832-71-9 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8R)- (9CI) (CA INDEX NAME)

09/485,441

Absolute stereochemistry. Rotation (-).



~~L14~~ ANSWER 25 OF 42 CAPLUS COPYRIGHT 2002 ACS

~~AN~~ 1996:380208 CAPLUS

~~DN~~ 125:114647

TI N-acyl-2,3-benzodiazepine derivatives and a method of treating spasms of the skeletal musculature therewith

IN Andrasi, Ferenc; Berzsenyi, Pal; Botka, Peter; Farkas, Sandor; Goldschmidt, Katalin; Hamori, Tamas; Koroesi, Jenő; Moravcsik, Imre; Tarnawa, Istvan

PA Gyogyszerkutato Intezet, Hung.

SO U.S., 22 pp. Cont.-in-part of U.S. Ser. No. 423,380, abandoned.
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5521174	A	19960528	US 1995-477799	19950607
	HU 59684	A2	19920629	HU 1990-8398	19901221
	HU 219778	B	20010730		
	US 5459137	A	19951017	US 1993-80604	19930621
PRAI	HU 1990-8398	A	19901221		
	US 1991-809361	B2	19911217		
	US 1993-48347	B2	19930415		
	US 1993-80604	A3	19930621		
	US 1995-423380	B2	19950417		

OS MARPAT 125:114647

AB The invention relates to the prepn. of novel N-acyl-2,3-benzodiazepine derivs. and a method of treating spasms of the skeletal musculature.

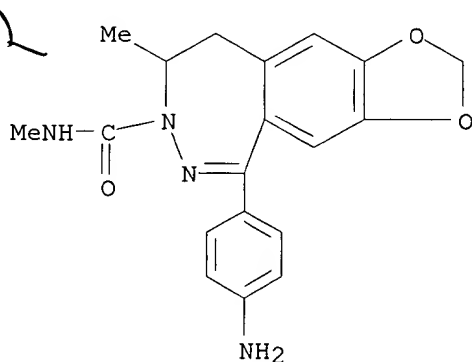
IT **143692-18-6**, 1-(4-Aminophenyl)-3-methylcarbamoyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine **173087-61-1**, 1-(4-Nitrophenyl)-3-chloroacetyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine

RL: RCT (Reactant)

(for prepn. of N-acyl-2,3-benzodiazepines as spasmolytic muscle relaxants)

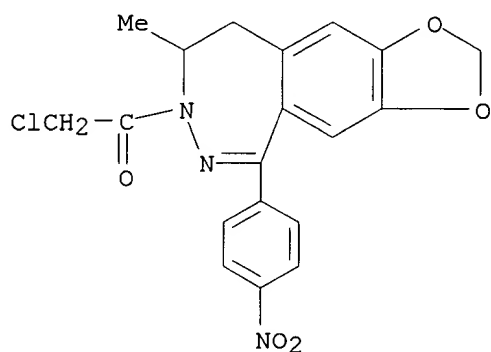
RN 143692-18-6 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)



RN 173087-61-1 CAPLUS

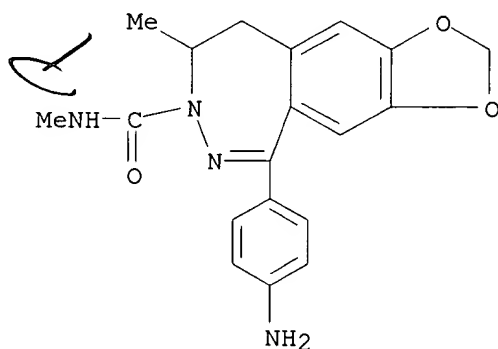
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(chloroacetyl)-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



IT **143692-48-2P 143692-50-6P**, 1-(4-Nitrophenyl)-3-(1-pyrrolidinoacetyl)-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine **143692-51-7P**, 1-(4-Nitrophenyl)-3-n-butylcarbamoyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine **143692-52-8P**, 1-[4-(N-Phthaloylglycylamino)phenyl]-3-methylcarbamoyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine **173087-60-0P**, 1-(4-Nitrophenyl)-3-methylcarbamoyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine **173087-62-2P**, 1-(4-Nitrophenyl)-3-(N,N-dimethylglycyl)-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (for prepn. of N-acyl-2,3-benzodiazepines as spasmolytic muscle relaxants)

RN 143692-48-2 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

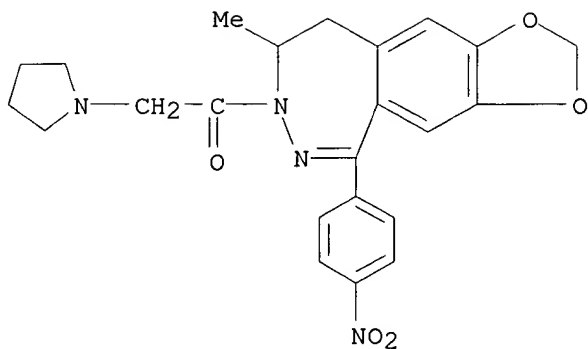


● HCl

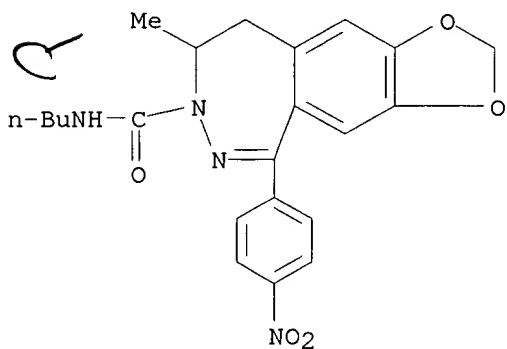
RN 143692-50-6 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-8-methyl-5-(4-nitrophenyl)-7-(1-pyrrolidinylacetyl)- (9CI) (CA INDEX NAME)

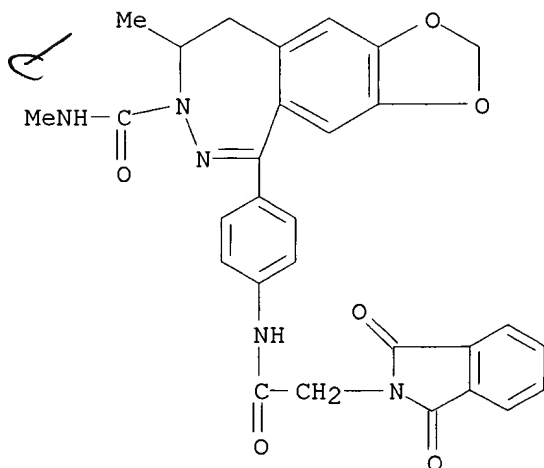
09/485,441



RN 143692-51-7 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
N-butyl-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

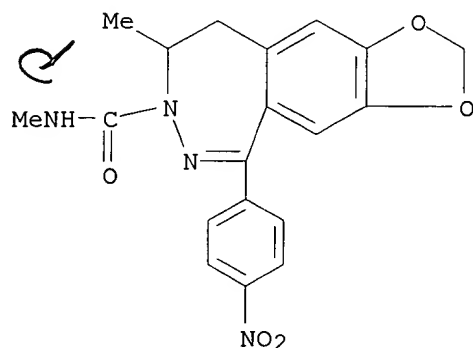


RN 143692-52-8 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-[4-[[[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)acetyl]amino]phenyl]]-8,9-
dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)



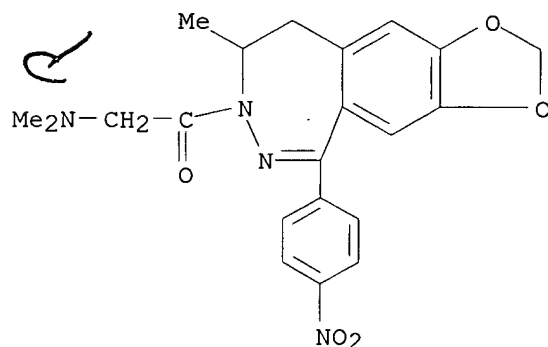
RN 173087-60-0 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
8,9-dihydro-N,8-dimethyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 173087-62-2 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[(dimethylamino)acetyl]-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



IT 143691-38-7P 143691-45-6P 143691-47-8P
143691-55-8P 143691-57-0P 143691-62-7P
143691-65-0P 143691-71-8P 143691-88-7P
143691-90-1P 143692-02-8P, 1-(4-Nitrophenyl)-3-glycyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine
143692-04-0P, 1-(4-Nitrophenyl)-3-(DL-alanyl)-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine 143692-05-1P,
1-(4-Nitrophenyl)-3-(N-phthaloylglycyl)-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine 143692-07-3P 143692-09-5P
143692-12-0P 143692-13-1P 143692-18-6P,
1-(4-Aminophenyl)-3-methylcarbamoyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine 143692-19-7P, 1-(4-Aminophenyl)-3-(1-pyrrolidinoacetyl)-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine 143692-21-1P, 1-(4-Aminophenyl)-3-(N,N-dimethylglycyl)-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine hydrogen fumarate 143692-26-6P,
1-(4-Acetylaminophenyl)-3-methylcarbamoyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine 143692-32-4P, 1-(4-Acetylaminophenyl)-3-chloroacetyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-3H-2,3-benzodiazepine 143692-35-7P, N1-[4-(3-Methylcarbamoyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepin-1-yl)phenyl]-N3-

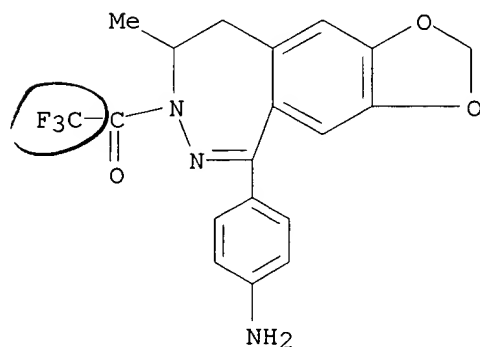
methylurea **143692-36-8P**, 1-(4-Aminophenyl)-3-n-butylcarbamoyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepin-1-yl **143692-37-9P**, 1-(4-Glycylaminophenyl)-3-methylcarbamoyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine **143692-38-0P**, 1-(4-Aminophenyl)-3-(N-methylglycyl)-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine **143715-46-2P 161832-68-4P**, (-)-1-(4-Nitrophenyl)-3-methylcarbamoyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine **161832-69-5P**, (+)-1-(4-Aminophenyl)-3-methylcarbamoyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine **161832-70-8P**, (+)-1-(4-Nitrophenyl)-3-methylcarbamoyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine **161832-71-9P**, (-)-1-(4-Aminophenyl)-3-methylcarbamoyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine **173087-57-5P**

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. as spasmolytic muscle relaxants)

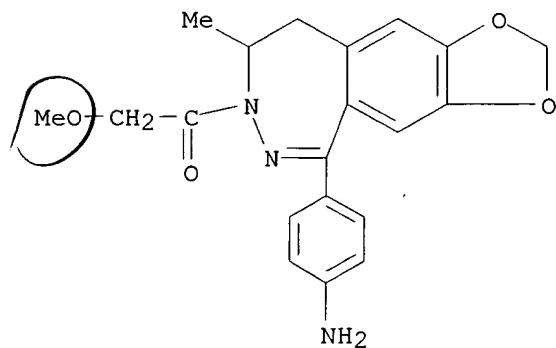
RN 143691-38-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-(trifluoroacetyl)- (9CI) (CA INDEX NAME)



RN 143691-45-6 CAPLUS

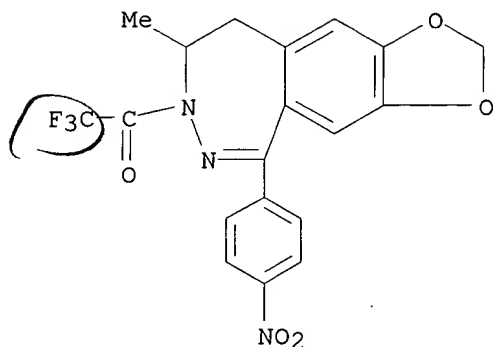
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-7-(methoxyacetyl)-8-methyl- (9CI) (CA INDEX NAME)



RN 143691-47-8 CAPLUS

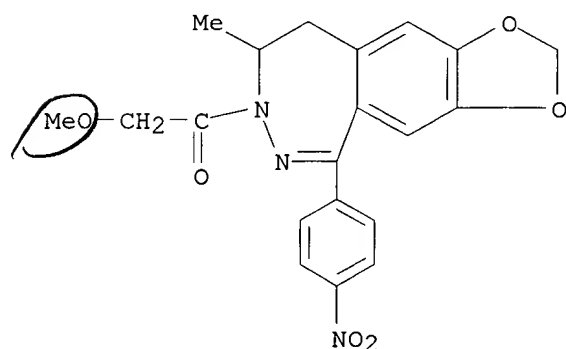
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-8-methyl-5-(4-

nitrophenyl)-7-(trifluoroacetyl)- (9CI) (CA INDEX NAME)



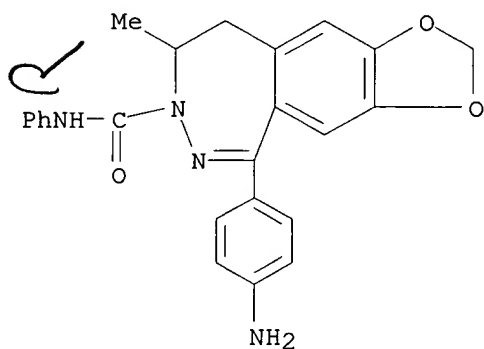
RN 143691-55-8 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-7-(methoxyacetyl)-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 143691-57-0 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-N-phenyl- (9CI) (CA INDEX NAME)

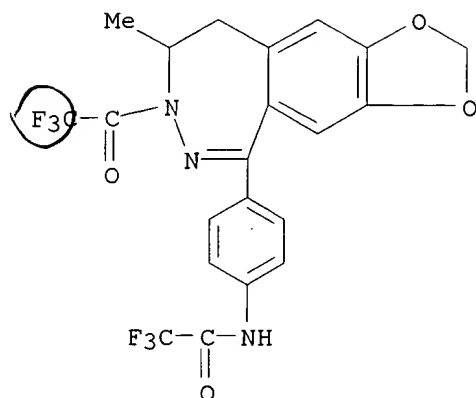


RN 143691-62-7 CAPLUS

CN Acetamide, N-[4-[8,9-dihydro-8-methyl-7-(trifluoroacetyl)-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]-2,2,2-trifluoro- (9CI) (CA

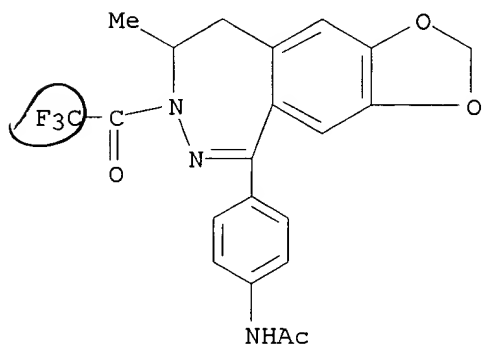
09/485,441

INDEX NAME)



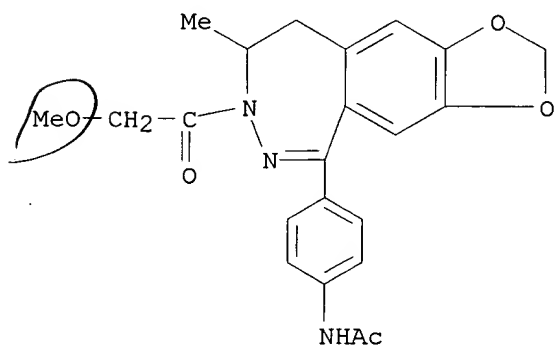
RN 143691-65-0 CAPLUS

CN Acetamide, N-[4-[8,9-dihydro-8-methyl-7-(trifluoroacetyl)-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 143691-71-8 CAPLUS

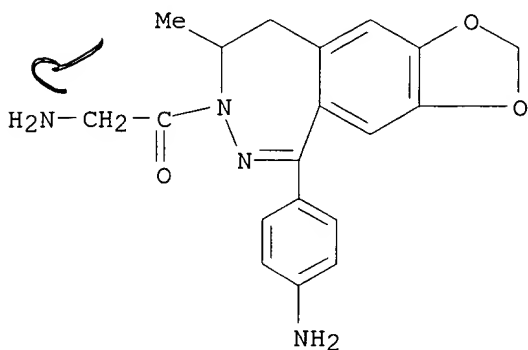
CN Acetamide, N-[4-[8,9-dihydro-7-(methoxyacetyl)-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 143691-88-7 CAPLUS

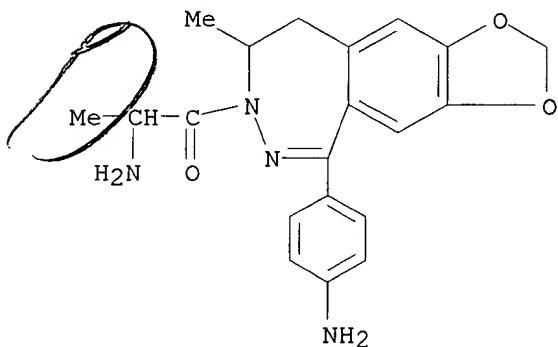
09/485,441

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(aminoacetyl)-5-(4-aminophenyl)-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)



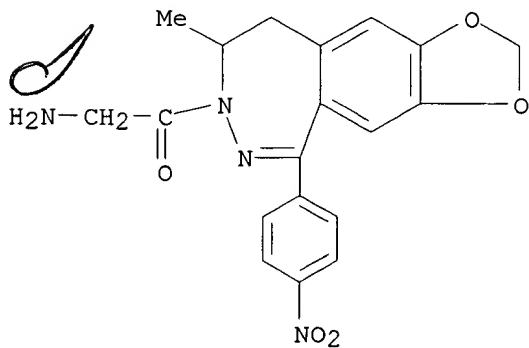
RN 143691-90-1 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(2-amino-1-oxopropyl)-5-(4-aminophenyl)-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)



RN 143692-02-8 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(aminoacetyl)-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

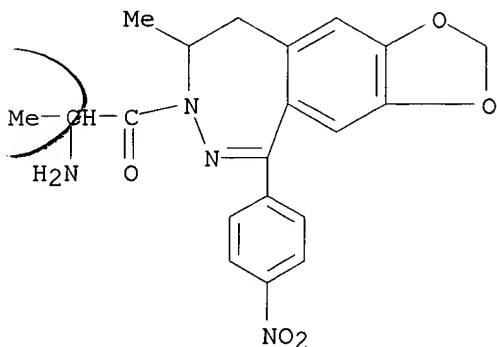


RN 143692-04-0 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(2-amino-1-oxopropyl)-8,9-

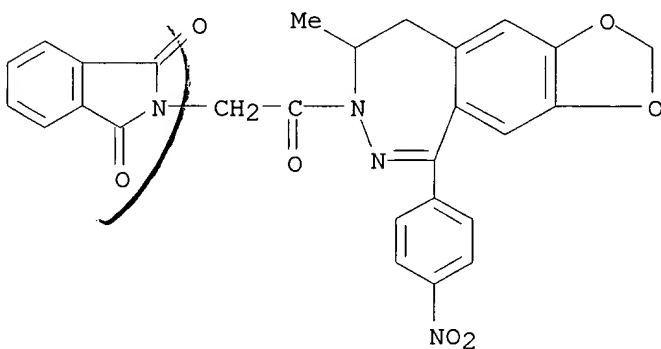
09/485,441

dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



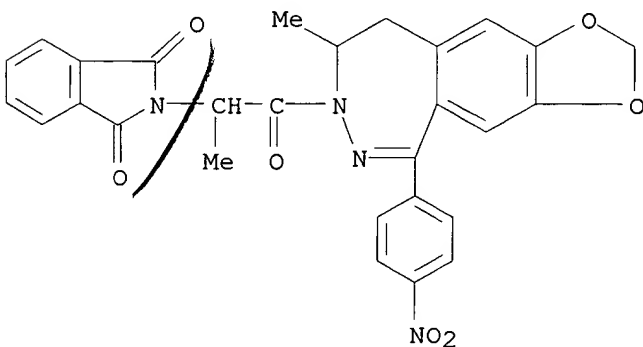
RN 143692-05-1 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)acetyl]-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



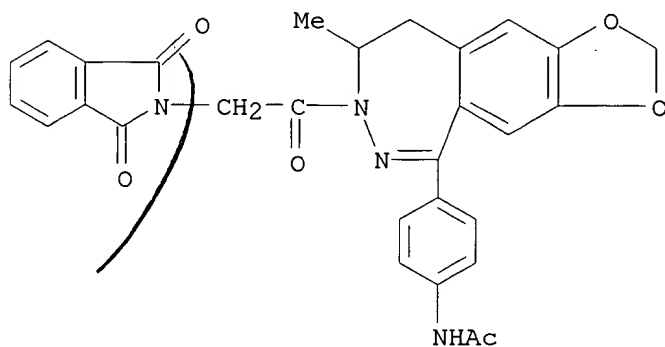
RN 143692-07-3 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-1-oxopropyl]-8,9-dihydro-8-methyl-1-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



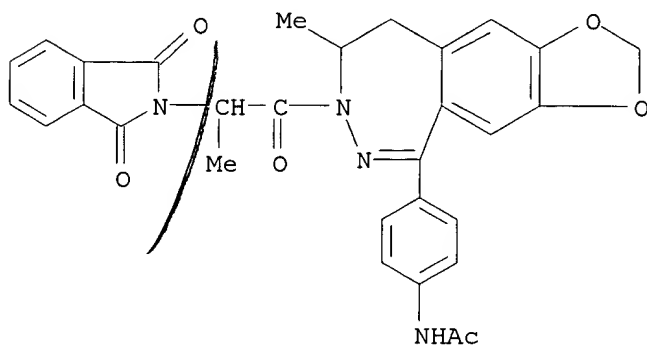
RN 143692-09-5 CAPLUS

CN Acetamide, N-[4-[7-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)acetyl]-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 143692-12-0 CAPLUS

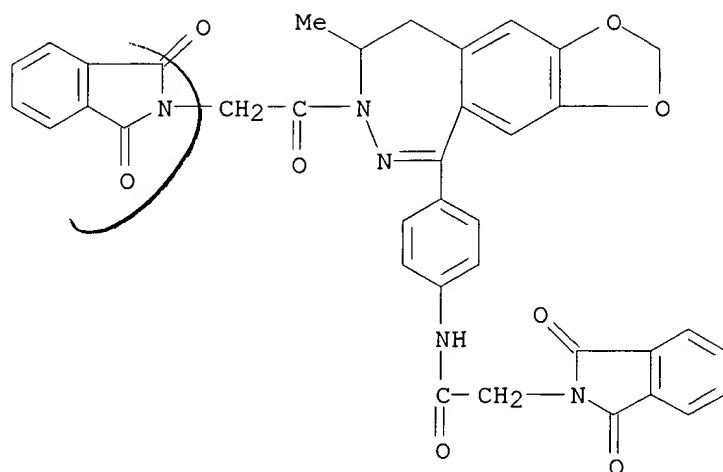
CN Acetamide, N-[4-[7-[2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-1-oxopropyl]-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



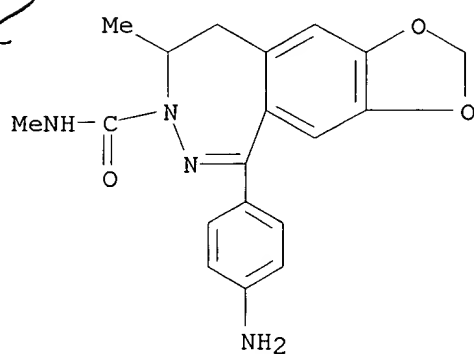
RN 143692-13-1 CAPLUS

CN 2H-Isoindole-2-acetamide, N-[4-[7-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)acetyl]-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]-1,3-dihydro-1,3-dioxo- (9CI) (CA INDEX NAME)

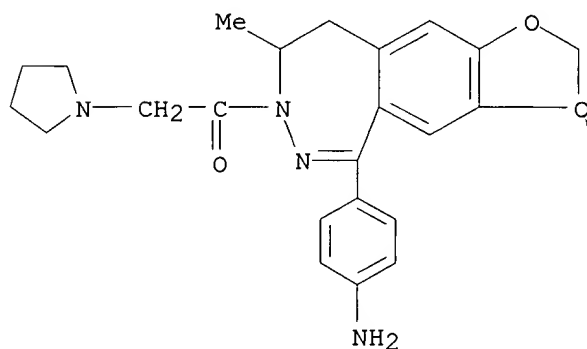
09/485,441



RN 143692-18-6 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)



RN 143692-19-7 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-(1-pyrrolidinylacetyl)- (9CI) (CA INDEX NAME)



RN 143692-21-1 CAPLUS

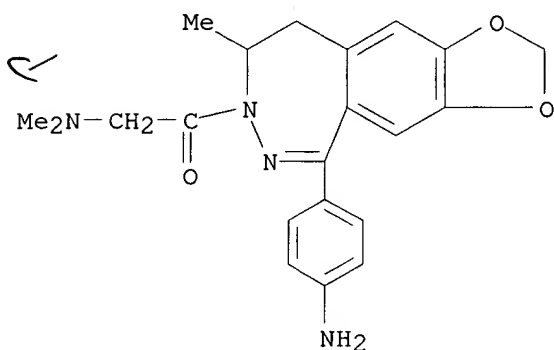
09/485,441

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-7-
[(dimethylamino)acetyl]-8,9-dihydro-8-methyl-, (2E)-2-butenedioate (1:1)
(9CI) (CA INDEX NAME)

CM 1

CRN 143692-20-0

CMF C21 H24 N4 O3



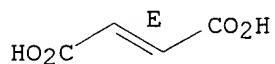
CM 2

CRN 110-17-8

CMF C4 H4 O4

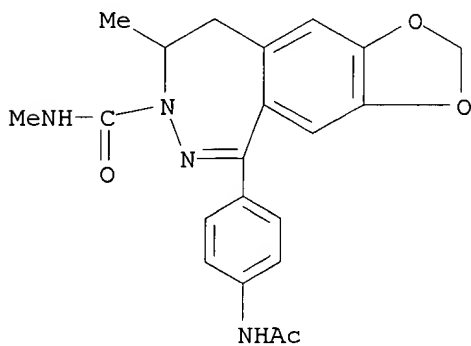
CDES 2:E

Double bond geometry as shown.



RN 143692-26-6 CAPLUS

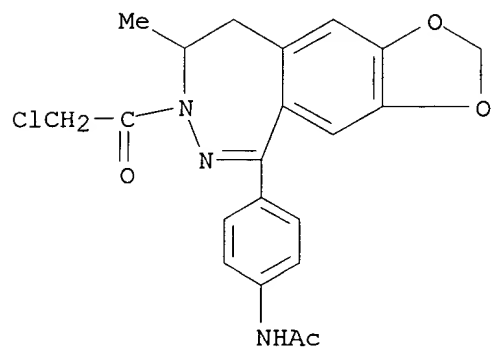
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-[4-(acetamino)phenyl]-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)



RN 143692-32-4 CAPLUS

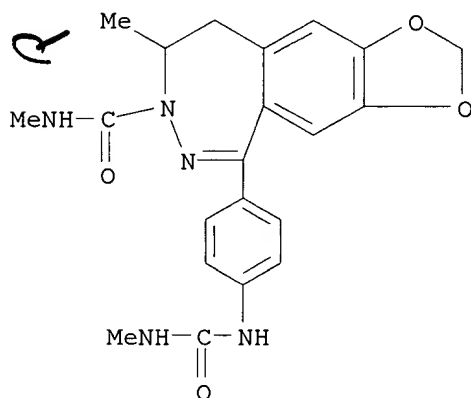
CN Acetamide, N-[4-[7-(chloroacetyl)-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-

h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



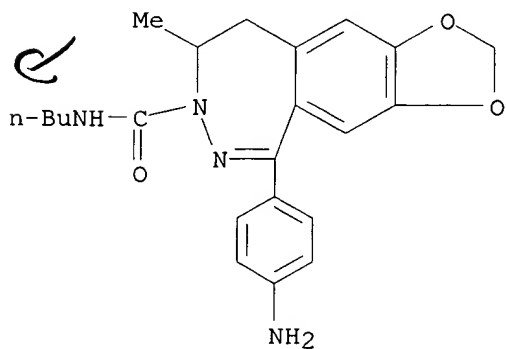
RN 143692-35-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
8,9-dihydro-N,8-dimethyl-5-[4-[(methylamino)carbonyl]amino]phenyl]- (9CI)
(CA INDEX NAME)



RN 143692-36-8 CAPLUS

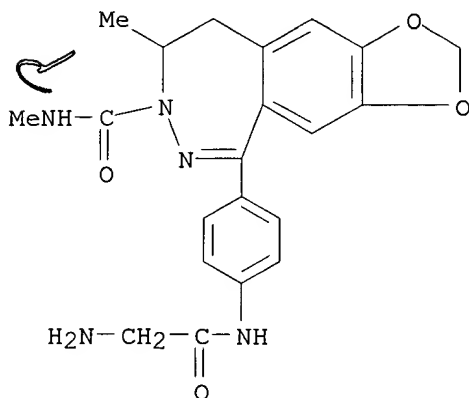
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-N-butyl-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)



09/485,441

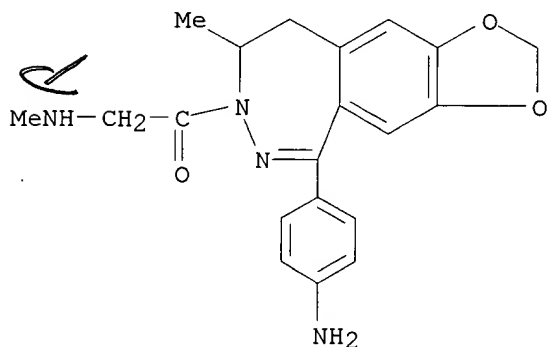
RN 143692-37-9 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-[4-[(aminoacetyl)amino]phenyl]-8,9-dihydro-N,8-dimethyl- (9CI) (CA
INDEX NAME)



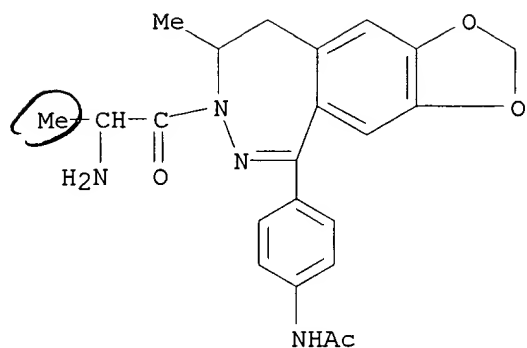
RN 143692-38-0 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-
methyl-7-[(methylamino)acetyl]- (9CI) (CA INDEX NAME)



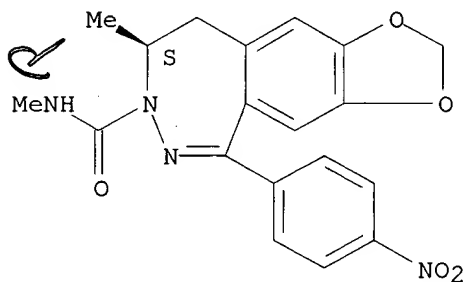
RN 143715-46-2 CAPLUS

CN Acetamide, N-[4-[7-(2-amino-1-oxopropyl)-8,9-dihydro-8-methyl-7H-1,3-
dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



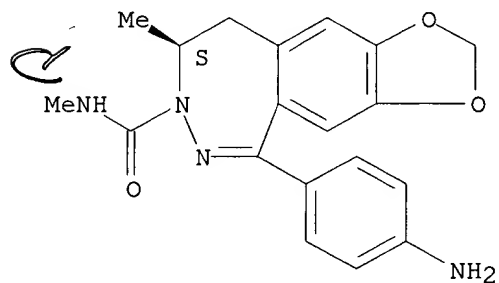
RN 161832-68-4 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
 8,9-dihydro-N,8-dimethyl-5-(4-nitrophenyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 161832-69-5 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8S)- (9CI) (CA INDEX NAME)

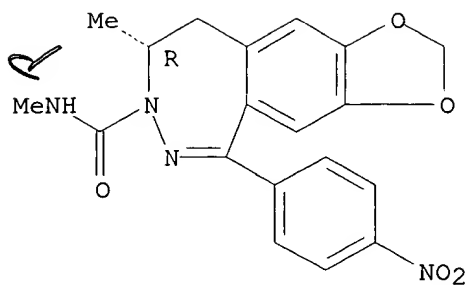
Absolute stereochemistry. Rotation (+).



RN 161832-70-8 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
 8,9-dihydro-N,8-dimethyl-5-(4-nitrophenyl)-, (R)- (9CI) (CA INDEX NAME)

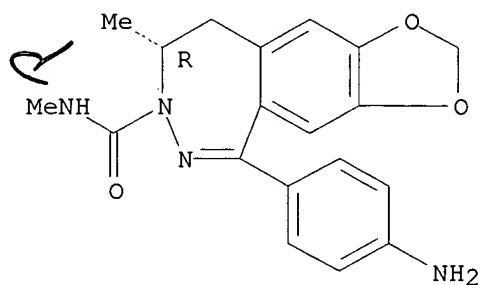
Absolute stereochemistry.

09/485,441

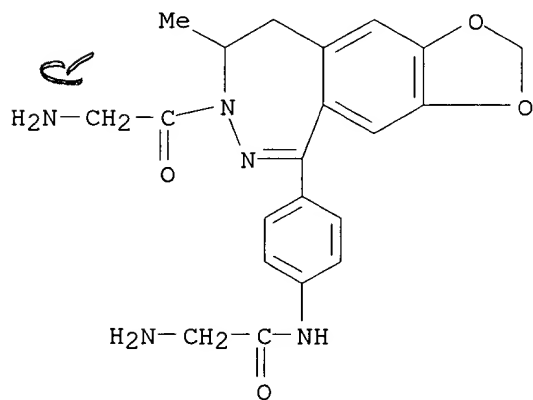


RN 161832-71-9 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 173087-57-5 CAPLUS
CN Acetamide, 2-amino-N-[4-[7-(aminoacetyl)-8,9-dihydro-8-methyl-7H-1,3-
dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



L14 ANSWER 26 OF 42 CAPLUS COPYRIGHT 2002 ACS

AN 1996:366157 CAPLUS

DN 125:114722

TI N-Acyl 1-(4-aminophenyl)-4-methyl-7,8-methylenedioxy-2,3-benzodiazepine derivatives as excitatory amino acid antagonists useful as anticonvulsants, muscle relaxants, and neuroprotectants

IN Andrasi, Ferenc; Berzsenyi, Pal; Botka, Peter; Farkas, Sandor; Goldschmidt, Katalin; Hamori, Tamas; Koroesi, Jenő; Moravcsik, Imre; Tarnawa, Istvan

PA Gyogyszerkutató Intézet, Hung.

SO U.S., 22 pp. Cont.-in-part of U. S. Ser. No. 423,166.

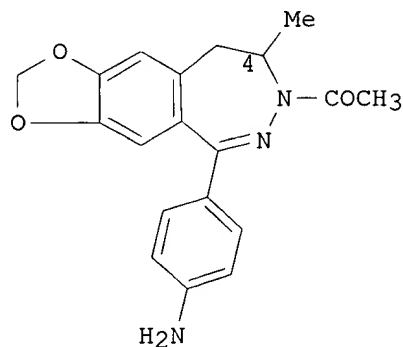
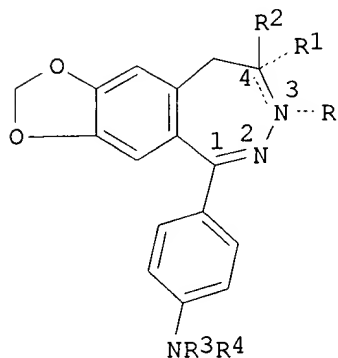
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5519019	A	19960521	US 1995-472454	19950607
	HU 59684	A2	19920629	HU 1990-8398	19901221
	HU 219778	B	20010730		
	US 5459137	A	19951017	US 1993-80604	19930621
PRAI	HU 1990-8398	A	19901221		
	US 1991-809361	B2	19911217		
	US 1993-48347	B2	19930415		
	US 1993-80604	A3	19930621		
	US 1995-423166	A2	19950417		
OS	MARPAT 125:114722				
GI					



AB A method of blocking the activation of one or more excitatory amino acid receptors in mammals is claimed, which comprises administering to a mammal in need of decreased excitatory amino acid neurotransmission a pharmaceutically effective amt. of a compd. of formula I wherein R is a C1-6 alkanoyl group optionally substituted by a methoxy, cyano, carboxyl, amino, C1-4 alkylamino, di(C1-4 alkyl)amino, pyrrolidino, phthalimido or Ph group, or by one or more halogen(s); or R is a benzoyl, cyclopropanecarbonyl, C1-5 alkylcarbamoyl or phenylcarbamoyl group; or R is absent when a double bond exists between the N(3) and C(4) atoms; R1 is hydrogen, or R1 is absent when a double bond exists between the N(3) and

C(4) atoms; R2 is a C1-3 alkyl group; or R1 and R2 together form a methylene group; R3 is hydrogen or a C1-4 alkanoyl group; R4 is hydrogen; a C1-6 alkanoyl group optionally substituted by a methoxy, cyano, carboxyl, amino, C1-4 alkylamino, di(C1-4 alkyl)amino, pyrrolidino, phthalimido or Ph group or by one or more halogen(s); as well as a benzoyl, palmitoyl, cyclopropanecarbonyl, C1-5 alkylcarbamoyl or phenylcarbamoyl group; with the proviso that no double bond exists between the N(3) and C(4) atoms when both R3 and R4 stand for hydrogen; and stereoisomers and pharmaceutically acceptable salts. Thus, e.g., acetylation of 1-(4-aminophenyl)-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine with Ac2O afforded 85.7% 1-(4-aminophenyl)-3-acetyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine (II) which exhibited inhibition of synaptic field potentials in rat hippocampal slices (an indicator of selective AMPA antagonist activity) with IC50 = 24.8 .mu.M vs. 31.7 .mu.M for GYKI 52466. Data are presented as well for the anticonvulsant, muscle-relaxant, and neuroprotective activity of I. Pharmaceutical formulations were given.

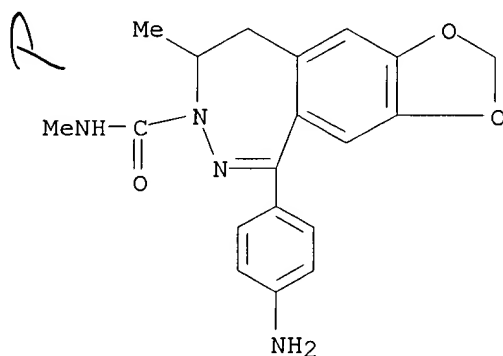
IT **143692-18-6P**

RL: BAC (Biological activity or effector, except adverse); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(N-acyl 1-(4-aminophenyl)-4-methyl-7,8-methylenedioxy-2,3-benzodiazepine derivs. as excitatory amino acid antagonists useful as anticonvulsants, muscle relaxants, and neuroprotectants)

RN 143692-18-6 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)



IT **143691-38-7P 143691-45-6P 143691-57-0P**
143691-62-7P 143691-65-0P 143691-71-8P
143691-88-7P 143691-89-8P 143691-90-1P
143691-91-2P 143692-19-7P 143692-21-1P
143692-26-6P 143692-32-4P 143692-35-7P
143692-36-8P 143692-37-9P 143692-38-0P
143692-48-2P 143715-46-2P 161832-69-5P
161832-71-9P 173087-57-5P

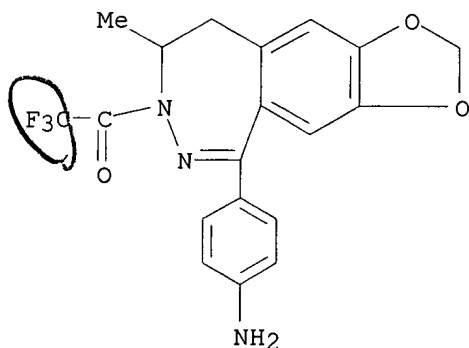
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(N-acyl 1-(4-aminophenyl)-4-methyl-7,8-methylenedioxy-2,3-benzodiazepine derivs. as excitatory amino acid antagonists useful as anticonvulsants, muscle relaxants, and neuroprotectants)

RN 143691-38-7 CAPLUS

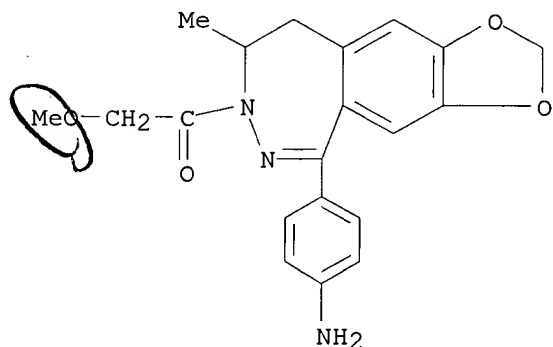
09/485,441

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-(trifluoroacetyl)- (9CI) (CA INDEX NAME)



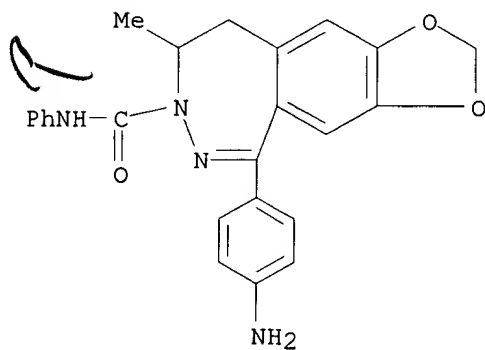
RN 143691-45-6 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-7-(methoxyacetyl)-8-methyl- (9CI) (CA INDEX NAME)



RN 143691-57-0 CAPLUS

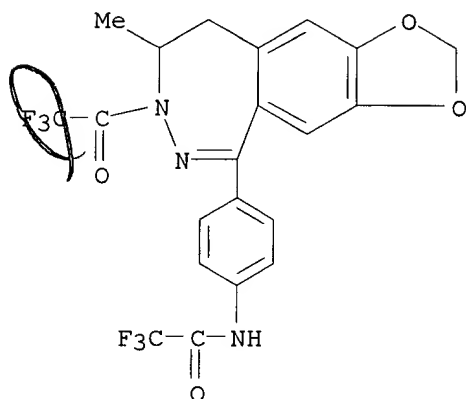
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-N-phenyl- (9CI) (CA INDEX NAME)



RN 143691-62-7 CAPLUS

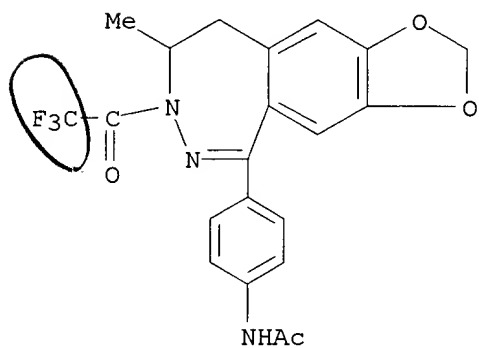
CN Acetamide, N-[4-[8,9-dihydro-8-methyl-7-(trifluoroacetyl)-7H-1,3-

dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



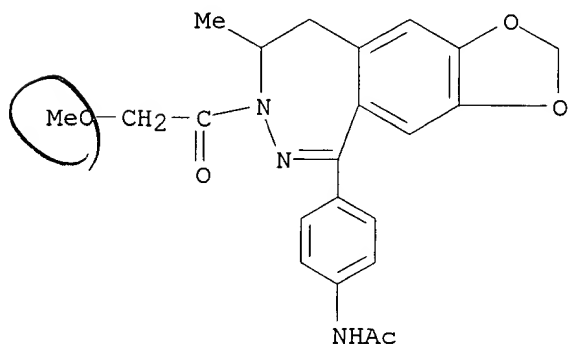
RN 143691-65-0 CAPLUS

CN Acetamide, N-[4-[8,9-dihydro-8-methyl-7-(trifluoroacetyl)-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 143691-71-8 CAPLUS

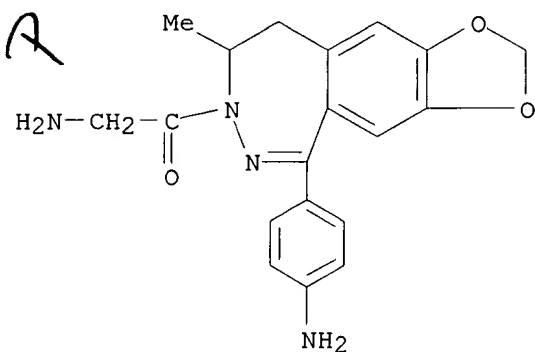
CN Acetamide, N-[4-[8,9-dihydro-7-(methoxyacetyl)-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



09/485,441

RN 143691-88-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(aminoacetyl)-5-(4-aminophenyl)-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)



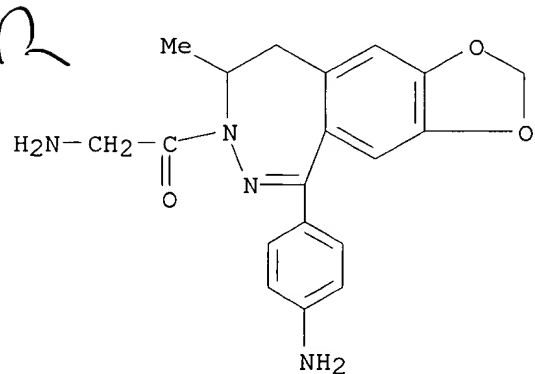
RN 143691-89-8 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(aminoacetyl)-5-(4-aminophenyl)-8,9-dihydro-8-methyl-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 143691-88-7

CMF C19 H20 N4 O3



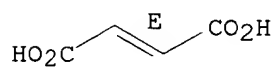
CM 2

CRN 110-17-8

CMF C4 H4 O4

CDES 2:E

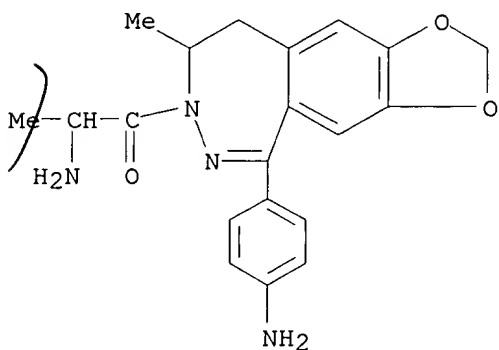
Double bond geometry as shown.



RN 143691-90-1 CAPLUS

09/485,441

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(2-amino-1-oxopropyl)-5-(4-aminophenyl)-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)



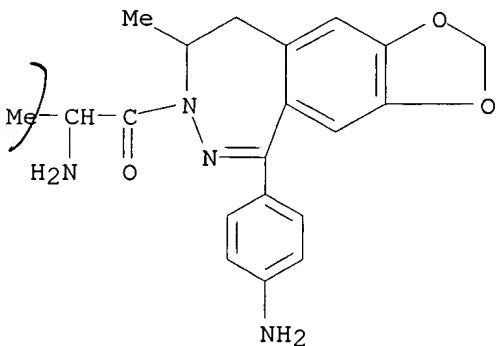
RN 143691-91-2 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(2-amino-1-oxopropyl)-5-(4-aminophenyl)-8,9-dihydro-8-methyl-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 143691-90-1

CMF C20 H22 N4 O3



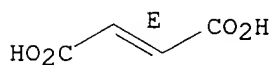
CM 2

CRN 110-17-8

CMF C4 H4 O4

CDES 2:E

Double bond geometry as shown.

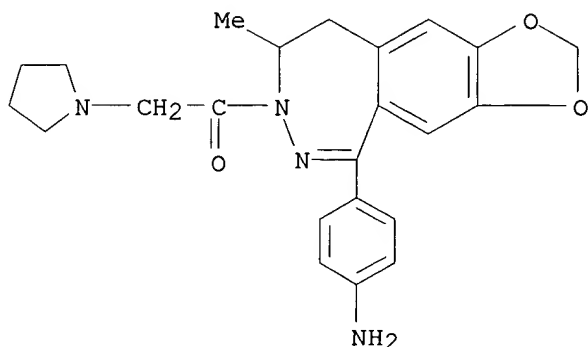


RN 143692-19-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-

09/485,441

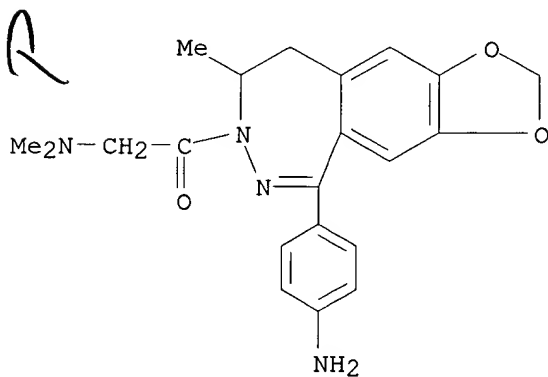
methyl-7-(1-pyrrolidinylacetyl)- (9CI) (CA INDEX NAME)



RN 143692-21-1 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-7-
[(dimethylamino)acetyl]-8,9-dihydro-8-methyl-, (2E)-2-butenedioate (1:1)
(9CI) (CA INDEX NAME)

CM 1

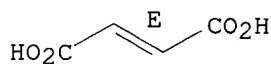
CRN 143692-20-0
CMF C21 H24 N4 O3



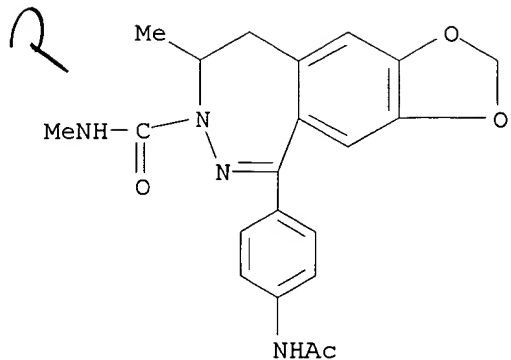
CM 2

CRN 110-17-8
CMF C4 H4 O4
CDES 2:E

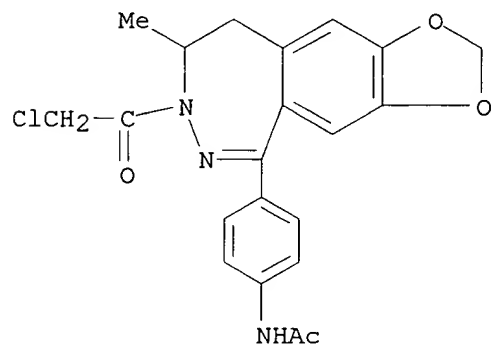
Double bond geometry as shown.



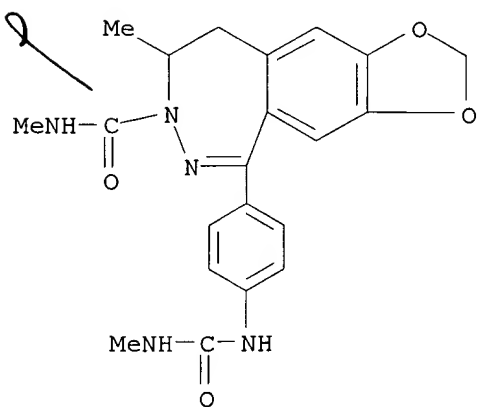
RN 143692-26-6 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-[4-(acetylamino)phenyl]-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)



RN 143692-32-4 CAPLUS
 CN Acetamide, N-[4-[7-(chloroacetyl)-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



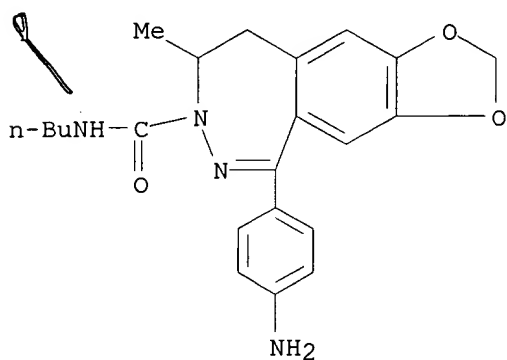
RN 143692-35-7 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
 8,9-dihydro-N,8-dimethyl-5-[4-[(methylamino)carbonyl]amino]phenyl]- (9CI)
 (CA INDEX NAME)



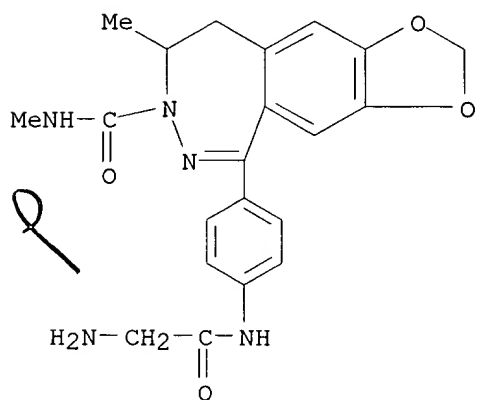
RN 143692-36-8 CAPLUS

09/485,441

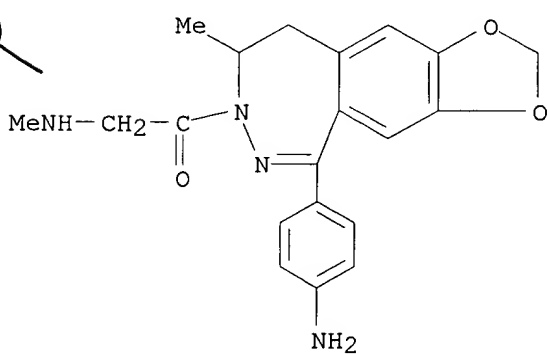
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-N-butyl-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)



RN 143692-37-9 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-[4-[(aminoacetyl)amino]phenyl]-8,9-dihydro-N,8-dimethyl- (9CI) (CA
INDEX NAME)

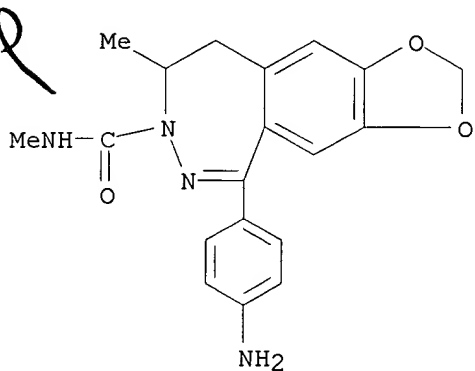


RN 143692-38-0 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-
methyl-7-[(methylamino)acetyl]- (9CI) (CA INDEX NAME)



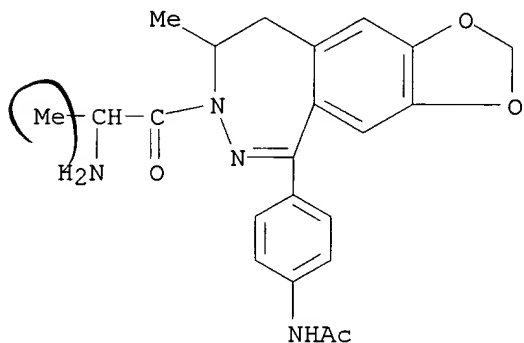
09/485,441

RN 143692-48-2 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA
INDEX NAME)



● HCl

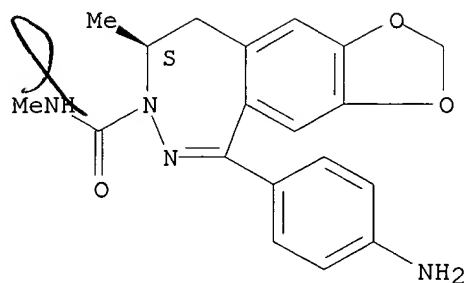
RN 143715-46-2 CAPLUS
CN Acetamide, N-[4-[7-(2-amino-1-oxopropyl)-8,9-dihydro-8-methyl-7H-1,3-
dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 161832-69-5 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8S)- (9CI) (CA INDEX NAME)

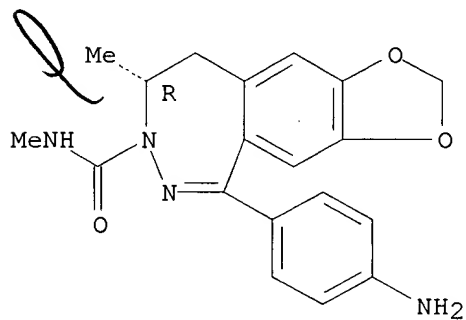
Absolute stereochemistry. Rotation (+).

09/485,441

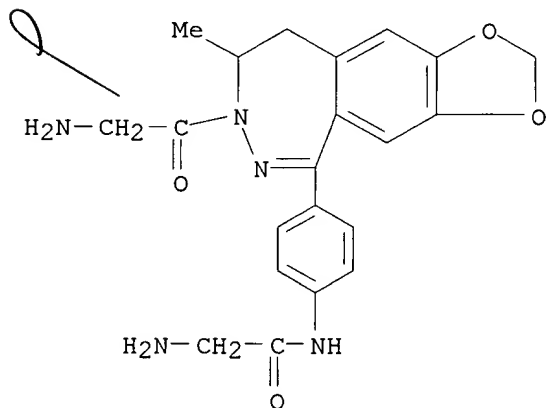


RN 161832-71-9 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 173087-57-5 CAPLUS
CN Acetamide, 2-amino-N-[4-[7-(aminoacetyl)-8,9-dihydro-8-methyl-7H-1,3-
dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)

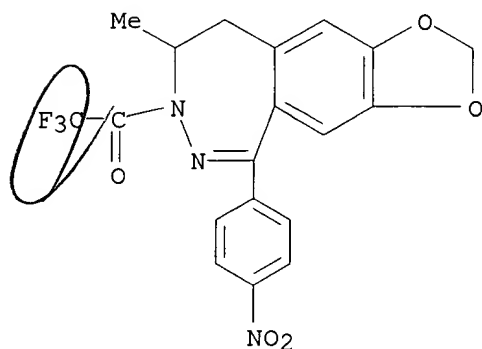


IT 143691-47-8P 143691-55-8P 143692-02-8P
143692-04-0P 143692-05-1P 143692-07-3P
143692-50-6P 143692-51-7P 143692-52-8P
161832-68-4P 161832-70-8P 173087-60-0P
173087-61-1P 173087-62-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

(N-acyl 1-(4-aminophenyl)-4-methyl-7,8-methylenedioxy-2,3-benzodiazepine derivs. as excitatory amino acid antagonists useful as anticonvulsants, muscle relaxants, and neuroprotectants)

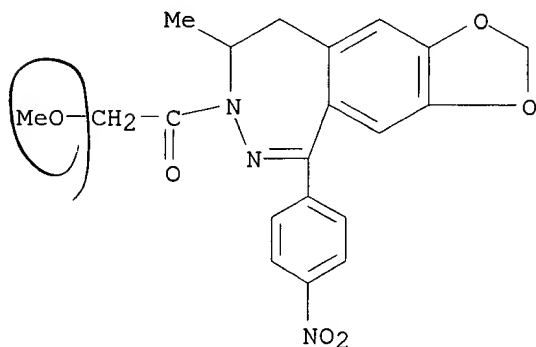
RN 143691-47-8 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-8-methyl-5-(4-nitrophenyl)-7-(trifluoroacetyl)- (9CI) (CA INDEX NAME)



RN 143691-55-8 CAPLUS

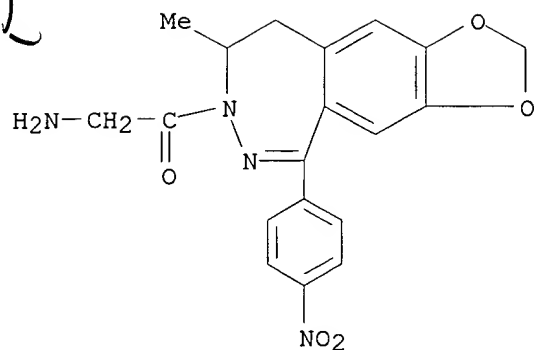
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-7-(methoxyacetyl)-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 143692-02-8 CAPLUS

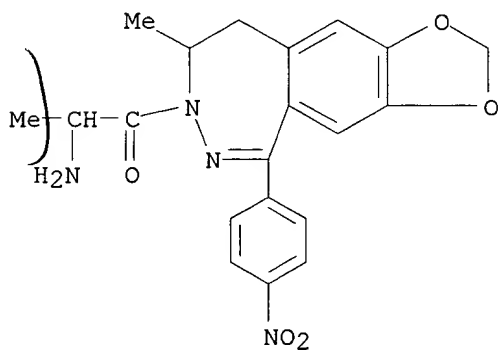
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(aminoacetyl)-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

A



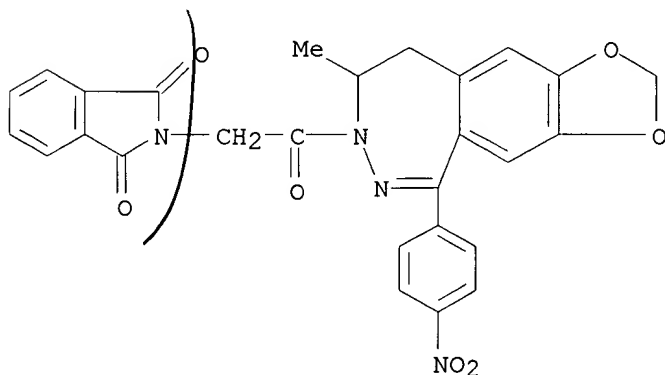
RN 143692-04-0 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(2-amino-1-oxopropyl)-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



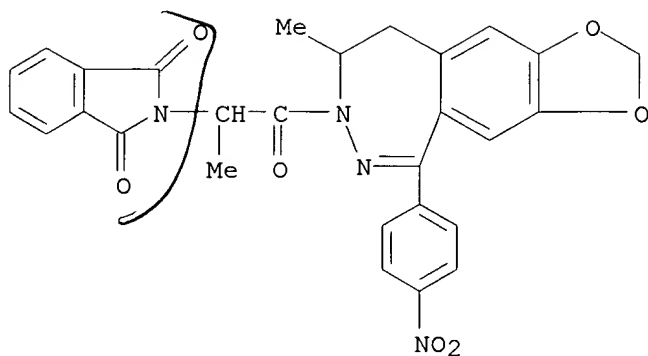
RN 143692-05-1 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)acetyl]-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

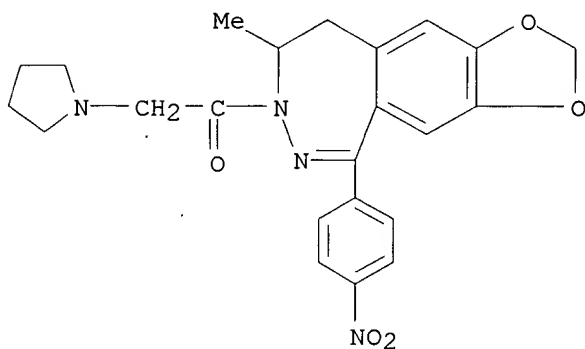


RN 143692-07-3 CAPLUS

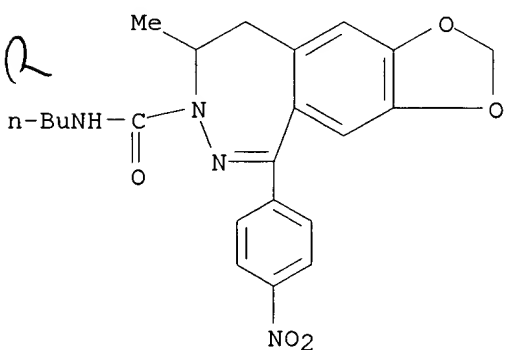
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-1-oxopropyl]-8,9-dihydro-8-methyl-1-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



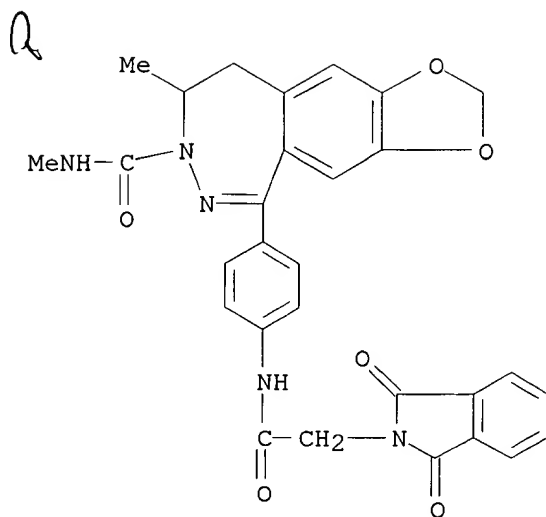
RN 143692-50-6 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-8-methyl-5-(4-nitrophenyl)-7-(1-pyrrolidinylacetyl)- (9CI) (CA INDEX NAME)



RN 143692-51-7 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, N-butyl-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



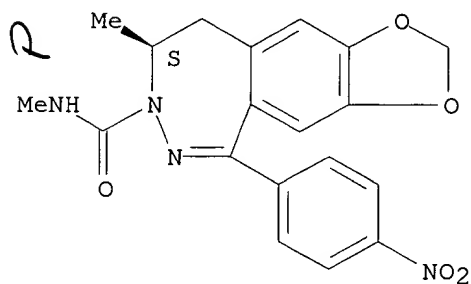
RN 143692-52-8 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-[4-[[[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)acetyl]amino]phenyl]]-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)



RN 161832-68-4 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
8,9-dihydro-N,8-dimethyl-5-(4-nitrophenyl)-, (S)- (9CI) (CA INDEX NAME)

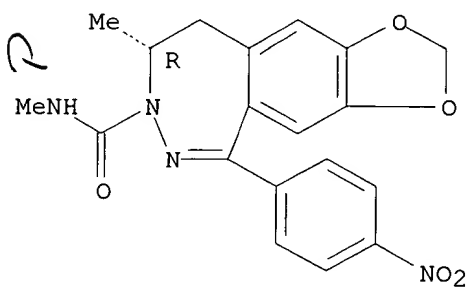
Absolute stereochemistry.



RN 161832-70-8 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
8,9-dihydro-N,8-dimethyl-5-(4-nitrophenyl)-, (R)- (9CI) (CA INDEX NAME)

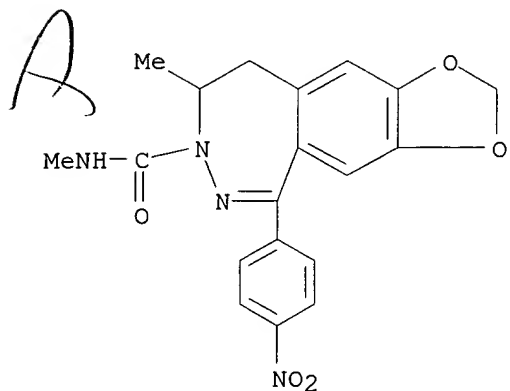
Absolute stereochemistry.



RN 173087-60-0 CAPLUS

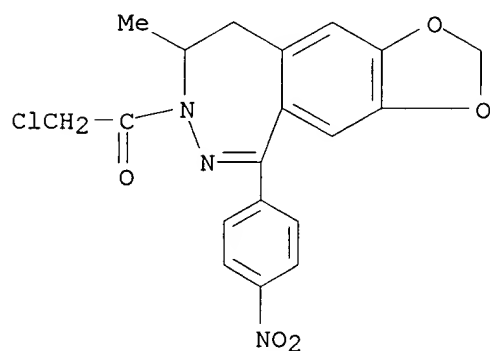
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,

8,9-dihydro-N,8-dimethyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



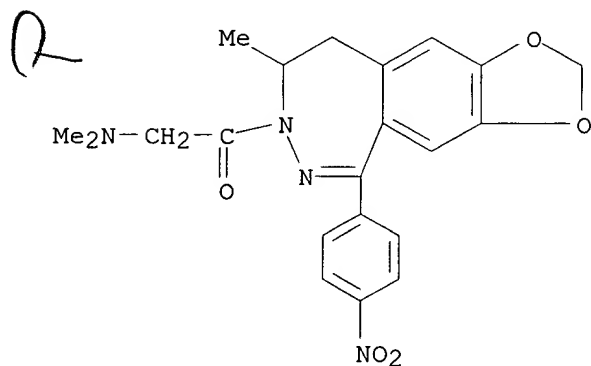
RN 173087-61-1 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(chloroacetyl)-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

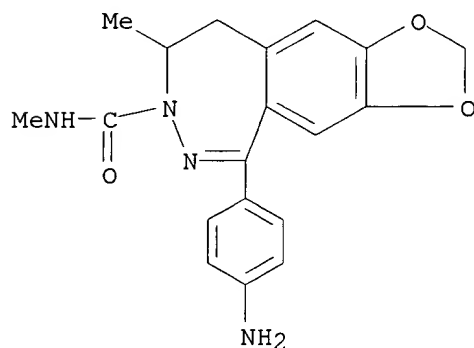


RN 173087-62-2 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[(dimethylamino)acetyl]-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



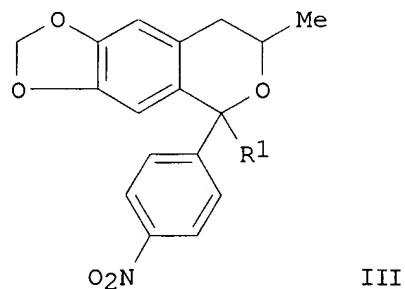
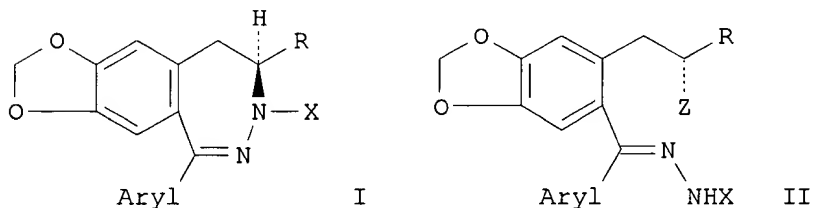
~~LA~~ ANSWER 27 OF 42 CAPLUS COPYRIGHT 2002 ACS
 AN 1996:347704 CAPLUS
 DN 125:104846
 TI Pharmacological characterization of AMPA-induced biting behavior in mice
 AU Brambilla, Alessandro; Prudentino, Aida; Grippa, Nicoletta; Borsini, Franco
 CS Department of Biology, Boehringer Ingelheim Italia, Via Lorenzini 8, 20139, Milan, Italy
 SO Eur. J. Pharmacol. (1996), 305(1-3), 115-117
 CODEN: EJPHAZ; ISSN: 0014-2999
 DT Journal
 LA English
 AB The spinal cord dorsal horn contains neural mechanisms which can greatly facilitate pain. It is well established that excitatory amino acids, aspartate and glutamate, are involved in the spinal transmission of nociceptive information and in the development of hyperalgesia. In the present study, intrathecal (i.t.) administration of .alpha.-amino-3-hydroxy-5-methyl-4-isoxazole-propionic acid (AMPA), a structural analog of L-glutamate, produced a dose-dependent behavioral syndrome characterized by caudally directed biting in mice. We demonstrated that peripheral pre-administration of the AMPA receptor antagonists 2,3-dihydroxy-6-nitro-7-sulfamoylbenzo(F)quinoxaline (NBQX, 10-100 mg/kg s.c.) and 1-(4-aminophenyl)-3-methylcarbamoyl-4-methyl-3,4-dihydro-7,8-methylene-diox y-5H-2,3-benzodiazepine-HCl (GYKI 53655, 3-10 mg/kg s.c.), and also of the NMDA receptor antagonist 5-methyl-10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5,10-imine maleate (MK 801, 0.3-1 mg/kg s.c.) reversed this effect. These findings suggest that the hyperalgesia induced by the i.t. injection of AMPA in mice involves the activation of both NMDA and non-NMDA excitatory amino acid receptor sites.
 IT **143692-48-2**, GYKI 53655
 RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
 (pharmacol. characterization of AMPA-induced biting behavior)
 RN 143692-48-2 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



HCl

~~LY4~~ ANSWER 28 OF 42 CAPLUS COPYRIGHT 2002 ACS
 AN 1996:313499 CAPLUS
 DN 125:33693
 TI Stereoselective process for producing dihydro-2,3-benzodiazepine derivatives
 IN Anderson, Benjamin; Hansen, Marvin Martin; Vicenzi, Jeffrey Thomas; Varie, David Lee; Zmijewski, Milton Joseph
 PA Lilly, Eli, and Co., USA
 SO Eur. Pat. Appl., 22 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 699677	A1	19960306	EP 1995-306051	19950830
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	US 5665878	A	19970909	US 1995-413036	19950328
	EP 1157992	A1	20011128	EP 2001-114686	19950830
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE				
PRAI	US 1994-298645	A	19940831		
	US 1995-413036	A	19950328		
	US 1995-413029	A	19950328		
	EP 1995-930998	A3	19950830		
OS	CASREACT 125:33693; MARPAT 125:33693				
GI					



AB A process for stereoselectively forming N-substituted dihydro-2,3 benzodiazepines (I; R = H, C1-10 alkyl; X = H, C1-10 alkyl, acyl, aryl, CO₂H, or substituted deriv. thereof, protecting group), which are useful as AMPA receptor antagonists, involves cyclization of a hydrazone (II; Z = leaving atom or group; X, R = same as above). In particular the cyclization is effected (1) by reacting the alc. II (Z = OH; R, X = same

as above) with a sulfonyl halide reagent and a base to form an intermediate sulfonate or (1) by direct Mitsunobu cyclization. Novel intermediates, useful in the process, are also prepd. Thus, microbial redn. of 3,4-methylenedioxyphenylacetone using *Zygosaccharomyces rouxii* to (S)-.alpha.-methyl-1,3-benzodioxole-5-ethanol (85-90% isolated yield, 100% e.e.) followed by cyclocondensation with p-nitrobenzaldehyde in toluene contg. 1.05 equiv concd. HCl at 55-65.degree. gave a 1,3-dioxolo[4,5-g][2]benzopyran deriv. [(5RS,7S)-III; R = H] (87-93% isolated yield, 100% e.e.). Oxidn. of the latter compd. with air in DMSO/DMF at 8-12.degree. followed by treatment with 50% aq. NaOH and stirring the resulting mixt. for 4.5 h and then acidification with 1 N HCl gave a 1,3-dioxolo[4,5-g][2]benzopyran-5-ol deriv. (5RS,7S)-III (R = OH), which was condensed with H2NNHAc in EtOH contg. concd. HCl to give the hydrazone II (R = Me, Z = HO, Aryl = p-nitrophenyl, X = Ac) (91% yield, 1:1 isomeric mixt.). Mesylation of the latter compd. with methanesulfonyl chloride and Et3N in CH2Cl2 gave the mesylate II (R = Me, Z = OSO2Me, Aryl = p-nitrophenyl, X = Ac) (87% yield, 3:1 isomeric mixt.), which was dissolved in MeOH, treated with 50% aq. NaOH, and stirred for 4 h to give 90% the title compd. I (R = Me, Aryl = p-nitrophenyl, X = Ac) (93% yield, 100% purity). Redn. of the latter compd. with potassium formate in the presence of 10% Pd-C in H2O/EtOH gave the title amine I (R = Me, Aryl = p-aminophenyl, X = Ac) (93% yield, 100% purity).

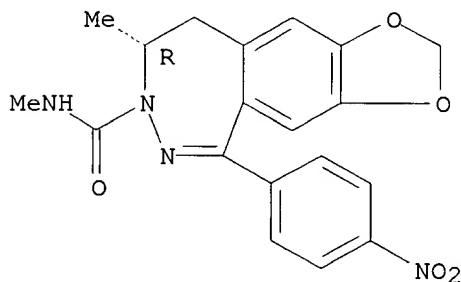
IT **161832-70-8P 161832-71-9P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(stereoselective process for producing dihydrobenzodiazepine deriv. as
AMPA receptor antagonist)

RN 161832-70-8 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
8,9-dihydro-N,8-dimethyl-5-(4-nitrophenyl)-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

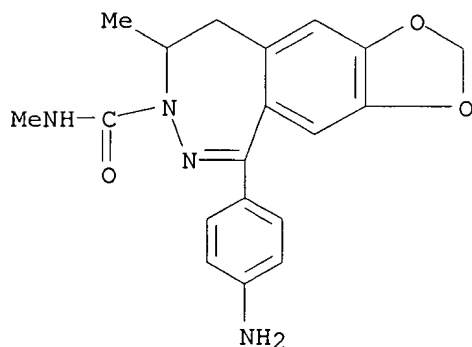


RN 161832-71-9 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

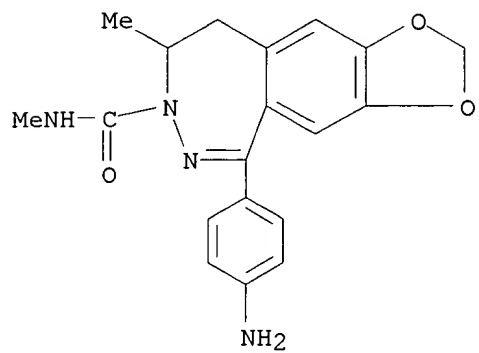
✓
L4 ANSWER 29 OF 42 CAPLUS COPYRIGHT 2002 ACS
AN 1996:238529 CAPLUS
DN 124:336978
TI Comparison of chiral separations on polysaccharide chiral stationary
phases to an improved Pirkle phase
AU Kennedy, Joseph H.
CS Chemical Process Research and Development, Lilly Research Laboratories,
Indianapolis, IN, 46285, USA
SO J. Chromatogr., A (1996), 725(2), 219-24
CODEN: JCRAEY; ISSN: 0021-9673
DT Journal
LA English
AB Polysaccharide chiral stationary phases (CSPs) Chiralcel OD, OJ, Chiralpak
AD, AS, and a chem. derived Whelk-O 1 were evaluated for sepn. of
different types of racemic compds. When possible, small differences in a
structure such as conversion of ketone to alc. were compared to
investigate differences in chiral sepn. capabilities of a given CSP.
Comparison of sepn. on the Whelk-O 1 and polysaccharide CSPs are
presented. Correlations between arom. bulk of a mol. and chiral
recognition as well as functional groups on mols. which enhance chiral
recognition are discussed.
IT **143692-18-6**
RL: ANT (Analyte); ANST (Analytical study)
(comparison of polysaccharide chiral stationary phases on enantiomeric
sepn.)
RN 143692-18-6 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)



14 ANSWER 30 OF 42 CAPLUS COPYRIGHT 2002 ACS
 AN 1996:203494 CAPLUS
 DN 124:278974
 TI Interactions of 2,3-benzodiazepines and cyclothiazide at AMPA receptors:
 patch clamp recordings in cultured neurons and area CA1 in hippocampal
 slices
 AU Rammes, Gerhard; Swandulla, Dieter; Collingridge, Graham L.; Hartmann,
 Sabine; Parsons, Chris G.
 CS Inst. Exp. Clinical Pharmacol. Toxicol., Univ. Erlangen, Erlangen,
 D-91054, Germany
 SO Br. J. Pharmacol. (1996), 117(6), 1209-21
 CODEN: BJPCBM; ISSN: 0007-1188
 DT Journal
 LA English
 AB The 2,3-benzodiazepines GYKI 52466, GYKI 53405 and GYKI 53655 antagonized
 AMPA-induced currents in cultured superior colliculus neurons in a non
 use-dependent manner (steady state IC50s: GYKI 52466 9.8 .mu.M; GYKI 53405
 3.1 .mu.M; GYKI 53655 0.8 .mu.M). Higher concns. of all three antagonists
 slowed the onset kinetics and quickened the offset kinetics of
 AMPA-induced currents indicative of an allosteric interaction with the
 AMPA recognition site. Cyclothiazide (3-300 .mu.M) dramatically slowed
 desensitization of AMPA-induced currents and potentiated steady state
 currents (EC50 10.0 .mu.M) to a much greater degree than peak currents.
 Both .tau.on and .tau.off were also increased by cyclothiazide in a
 concn.-dependent manner (EC50: .tau.on 42.1 .mu.M; .tau.off 31.6 .mu.M).
 Cyclothiazide (10-100 .mu.M) shifted the concn.-response curves of the
 2,3-benzodiazepines to the right. For example, with 10 .mu.M
 cyclothiazide the IC50s of GYKI 52466 and GYKI 53405 on steady-state
 AMPA-induced currents were 57.9 and 41.6 .mu.M, resp. GYKI 53405 and GYKI
 52466 concn.-dependently reversed the effects of cyclothiazide (100 .mu.M)
 on offset kinetics (GYKI 53405 IC50 16.6 .mu.M). However, the
 2,3-benzodiazepines were unable to reintroduce desensitization in the
 presence of cyclothiazide and even concn.-dependently slowed the onset
 kinetics of AMPA responses further (GYKI 53405 EC50 8.0 .mu.M). GYKI
 52466 decreased the peak amplitude of hippocampal area CA1 AMPA
 receptor-mediated excitatory postsynaptic currents (e.p.s.cs) (IC50 10.8
 .mu.M) with no apparent effect on response kinetics. Cyclothiazide
 prolonged the decay time const. of AMPA receptor-mediated e.p.s.cs (EC50
 35.7 .mu.M) with less pronounced effects in slowing e.p.s.c. onset
 kinetics and increasing e.p.s.c. amplitude. Cyclothiazide (330 .mu.M)
 shifted the concn.-response curve for the effects of GYKI 52466 on AMPA
 receptor-mediated e.p.s.c. peak amplitude to the right (GYKI 52466 IC50
 26.9 .mu.M). Likewise, GYKI 52466 (30-100 .mu.M) shifted the
 concn.-response curve for the effects of cyclothiazide on AMPA
 receptor-mediated e.p.s.c. decay time consts. to the right. In
 conclusion, cyclothiazide and the 2,3-benzodiazepines seem to bind to
 different sites on AMPA receptors but exert strong allosteric interactions
 with one another and with other domains such as the agonist recognition
 site. The interactions of GYKI 52466 and cyclothiazide on AMPA
 receptor-mediated e.p.s.cs in area CA1 of hippocampal slices provide
 evidence that the decay time const. of these synaptic events are not
 governed by desensitization.
 IT 143692-48-2, GYKI 53655
 RL: BAC (Biological activity or effector, except adverse); THU
 (Therapeutic use); BIOL (Biological study); USES (Uses)
 (interactions of 2,3-benzodiazepines and cyclothiazide at AMPA
 receptors in cultured neurons and area CA1 in hippocampal slices)
 RN 143692-48-2 CAPLUS

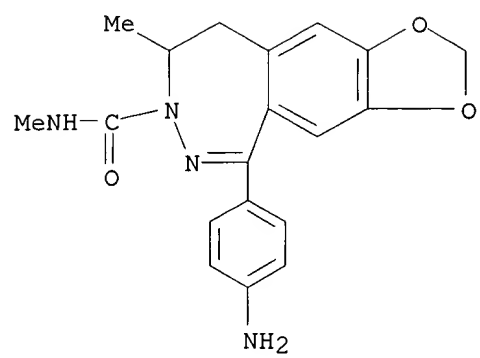
09/485,441

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA
INDEX NAME)



L14 ANSWER 31 OF 42 CAPLUS COPYRIGHT 2002 ACS
AN 1996:76141 CAPLUS
DN 124:165107
TI Negative allosteric modulation of wild-type and mutant AMPA receptors by
GYKI 53655
AU Partin, Kathryn M.; Mayer, Mark L.
CS Lab. Cellular Molecular Neurophysiology, National Inst. Child Health Human
Development, Bethesda, MD, 20892-4495, USA
SO Mol. Pharmacol. (1996), 49(1), 142-8
CODEN: MOPMA3; ISSN: 0026-895X
DT Journal
LA English
AB Benzothiadiazides such as cyclothiazide potentiate .alpha.-amino-3-hydroxy-
5-methyl-4-isoxazolepropionic acid (AMPA) receptor responses, whereas
2,3-benzodiazepines such as 1-(4-aminophenyl)-3-methylcarbamy-4-methyl-7,8-
methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine (GYKI 53655) act as
noncompetitive antagonists; both drugs act through allosteric modulation.
Controversy exists as to whether cyclothiazide and GYKI t3655 act at a
common site. Recent mutational anal. has led to the identification of a
serine residue in flip splice variants that is crit. for directing the
interaction of cyclothiazide with AMPA receptors. The authors tested
whether the mutation of this residue to glutamine, which abolishes
potentiation by cyclothiazide, can in addn. block antagonism by
2,3-benzodiazepines, as would be predicted for action at a common site.
The authors found that the S to Q mutation does not alter antagonism by
2,3-benzodiazepines, suggesting that the mol. determinants directing the
interaction between GYKI 53655 and AMPA receptors are not identical to
those controlling sensitivity to cyclothiazide. Addnl. support for this
was obtained from anal. of the responses of AMPA receptor flip/flop splice
variants, which, despite differences in equil. desensitization and
sensitivity to cyclothiazide, show only small differences in sensitivity
to 2,3-benzodiazepines. Furthermore, introduction to the flip exon from
GluRA into GluR6, conferred sensitivity to cyclothiazide but did not
increase sensitivity to 2,3-benzodiazepines. Of interest, expts. with
native AMPA receptors generated from hippocampal and forebrain poly(A)+
mRNA revealed greater sensitivity to 2,3-benzodiazepines than receptors
generated by expression of recombinant AMPA receptors, possibly indicating
the existence of an unidentified accessory protein or novel receptor
subunit.
IT **143692-48-2**, GYKI 53655
RL: BAC (Biological activity or effector, except adverse); BIOL
(Biological study)
(neg. allosteric modulation of wild-type and mutant AMPA receptors by
GYKI 53655)
RN 143692-48-2 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA
INDEX NAME)

09/485,441



● HCl

LI4 ANSWER 32 OF 42 CAPLUS COPYRIGHT 2002 ACS

AN 1995:931616 CAPLUS

DN 124:146210

TI N-acylated 1-(4-aminophenyl)-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepines as anticonvulsants, muscle relaxants, and neuroprotective agents

IN Andrasi, Ferenc; Berzsenyi, Pal; Botka, Peter; Farkas, Sandor; Goldschmidt, Katalin; Hamori, Tamas; Korosi, Jenő; Moravcsik, Imre; Tarnawa, Istvan

PA Gyogyszerkutató Intézet Kft, Hung.

SO U.S., 19 pp. Cont.-in-part of U.S. Ser. No. 48, 347, abandoned.

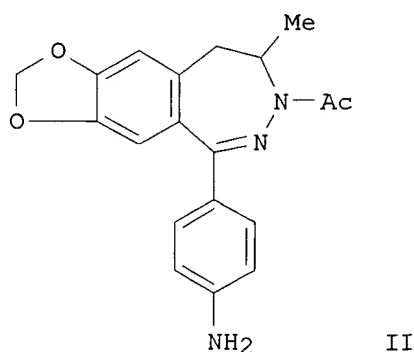
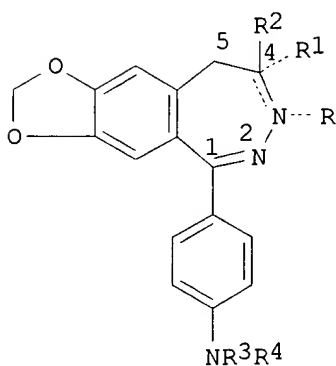
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5459137 ✓	A	19951017	US 1993-80604	19930621
	CZ 280769	B6	19960417	CZ 1991-3985	19911220
	US 5604223	A	19970218	US 1995-423032	19950321
	US 5536832	A	19960716	US 1995-423153	19950417
	US 5519019 ✓	A	19960521	US 1995-472454	19950607
	US 5521174 ✓	A	19960528	US 1995-477799	19950607
	US 5639751 ✓	A	19970617	US 1995-477801	19950607
PRAI	US 1991-809361	B2	19911217		
	US 1993-48347	B2	19930415		
	HU 1990-8398	A	19901221		
	US 1993-80604	A	19930621		
	US 1995-423152	B2	19950417		
	US 1995-423166	A2	19950417		
	US 1995-423380	B2	19950417		
OS	MARPAT 124:146210				
GI					



AB The invention relates to novel N-acyl-2,3-benzodiazepine derivs. of the general formula I wherein, R is a C1-C6 alkanoyl group optionally substituted by a methoxy, cyano, carboxyl, amino, C1-4 alkylamino, di(C1-4 alkyl)amino, pyrrolidino, phthalimido or Ph group, or by one or more halogen(s); or R is a benzoyl, cyclopropanecarbonyl, C1-C5 alkylcarbamoyl

or phenylcarbamoyl group; or R is absent when a double bond exists between the N(3) and C(4) atoms; R1 is hydrogen; or R1 is absent when a double bond exists between the N(3) and C(4) atoms; R2 is a C1-C3 alkyl group; or R1 and R2 together form a methylene group; R3 is hydrogen or a C1-4 alkanoyl group; R4 represents hydrogen; a C1-C6 alkanoyl group optionally substituted by a methoxy, cyano, carboxyl, amino, C1-C4 alkylamino, di(C1-C4 alkyl)amino, pyrrolidino, phthalimido or Ph group or by one or more halogen(s); or a benzoyl, palmitoyl, cyclopropanecarbonyl, C1-C5 alkylcarbamoyl or phenylcarbamoyl group; and the dotted lines represent valence bonds optionally being present, with the proviso that no double bond exists between the N(3) and C(4) atoms when both R3 and R4 stand for hydrogen; their stereoisomers and acid-addn. salts, pharmaceutical compns. contg. them and a process for their prepn. I possess valuable central nervous system effects, particularly muscle-relaxant, anticonvulsive and neuroprotective action. Thus, they may be useful for the treatment of various diseases of central nervous system origin. Thus, e.g., redn. of 1-(4-nitrophenyl)-3-acetyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine (prepn. given) with Raney nickel catalyst/hydrazine hydrate afforded 1-(4-aminophenyl)-3-acetyl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine (II; 77.35%) which exhibited (1) narcosis potentiating effect in mice: ED50 = 3.6 mg/kg p.o.; (2) anticonvulsive effect in mice: ED50 = 12.5 mg/kg p.o. in the electroshock test; (3) muscle-relaxant activity in mice: ED50 = 23.5 mg/kg i.p. in the inclined screen test. In rat neocortex slices II was twice as active as the ref. compd. [1-(4-aminophenyl)-4-methyl-7,8-methylenedioxy-5H-2,3-benzodiazepine] in inhibiting the response to the 2-min perfusion with 10 .mu.M of quisqualate (both mols. failed to affect the responses induced by NMDA) and, therefore, II can be considered to be a selective, non-NMDA but quisqualate-type excitatory amino acid antagonist. Pharmaceutical compns. were given.

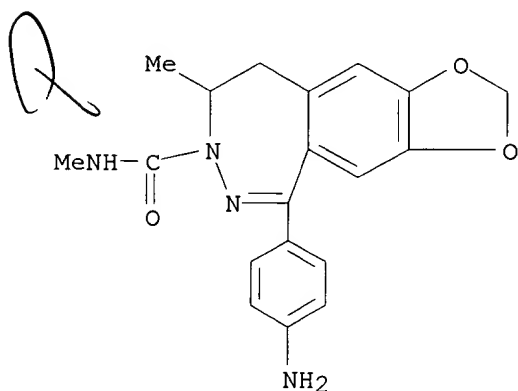
IT **143692-18-6P**

RL: BAC (Biological activity or effector, except adverse); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(N-acylated 1-(4-aminophenyl)-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepines as anticonvulsants, muscle relaxants, and neuroprotective agents)

RN 143692-18-6 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)



IT **143691-38-7P 143691-45-6P 143691-57-0P**
143691-62-7P 143691-65-0P 143691-71-8P

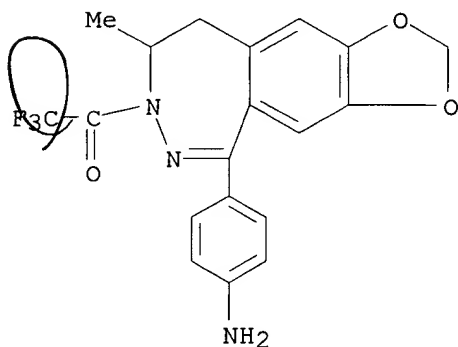
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 143691-91-2P 143691-93-4P 143692-19-7P
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 143692-35-7P 143692-36-8P 143692-37-9P
 143692-38-0P 143692-48-2P 143715-46-2P
 161832-69-5P 161832-71-9P 173087-57-5P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(N-acylated 1-(4-aminophenyl)-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepines as anticonvulsants, muscle relaxants, and neuroprotective agents)

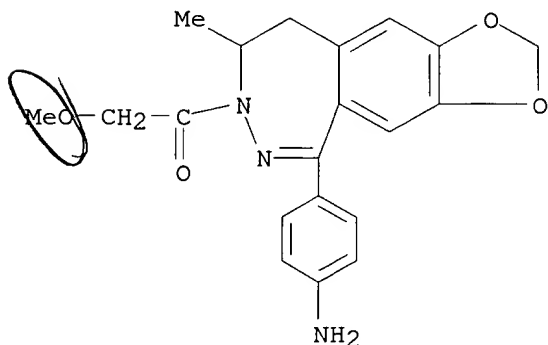
RN 143691-38-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-(trifluoroacetyl)- (9CI) (CA INDEX NAME)



RN 143691-45-6 CAPLUS

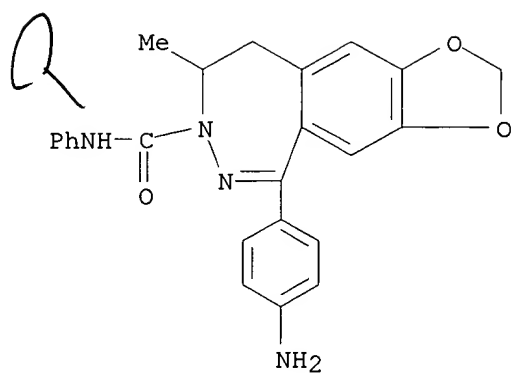
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-7-(methoxyacetyl)-8-methyl- (9CI) (CA INDEX NAME)



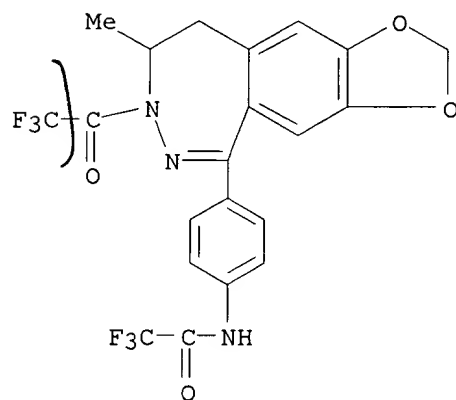
RN 143691-57-0 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-N-phenyl- (9CI) (CA INDEX NAME)

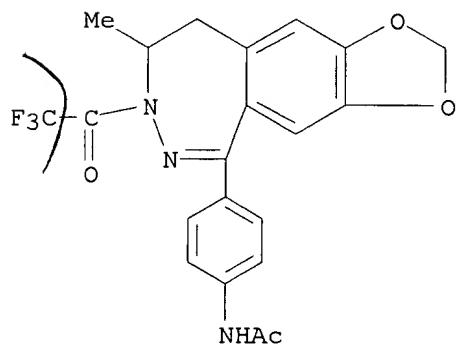
09/485,441



RN 143691-62-7 CAPLUS
CN Acetamide, N-[4-[8,9-dihydro-8-methyl-7-(trifluoroacetyl)-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



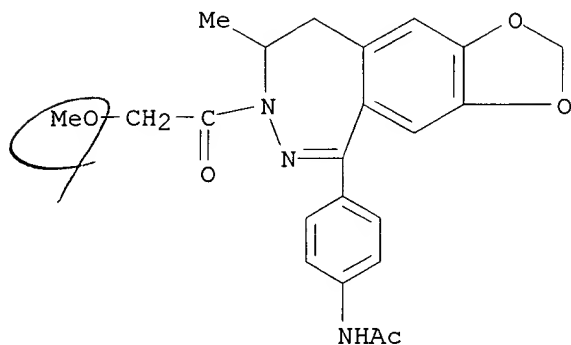
RN 143691-65-0 CAPLUS
CN Acetamide, N-[4-[8,9-dihydro-8-methyl-7-(trifluoroacetyl)-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 143691-71-8 CAPLUS
CN Acetamide, N-[4-[8,9-dihydro-7-(methoxyacetyl)-8-methyl-7H-1,3-dioxolo[4,5-

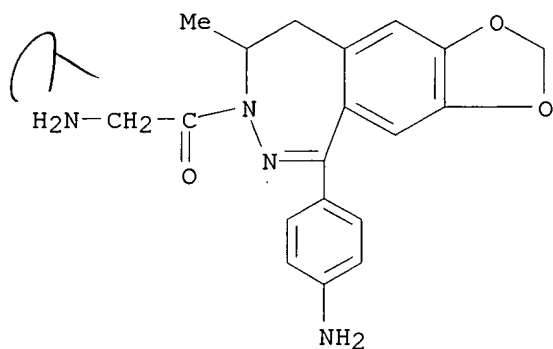
09/485,441

h)[2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 143691-88-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(aminoacetyl)-5-(4-aminophenyl)-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)



RN 143691-89-8 CAPLUS

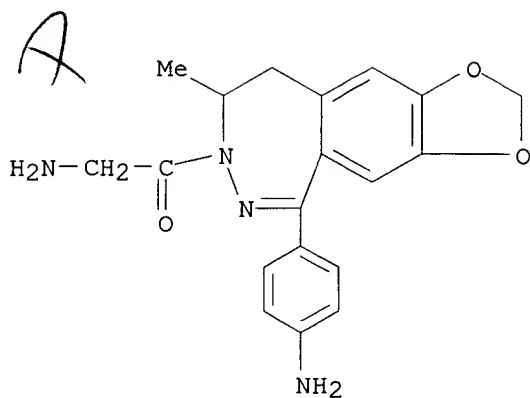
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(aminoacetyl)-5-(4-aminophenyl)-8,9-dihydro-8-methyl-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 143691-88-7

CMF C19 H20 N4 O3

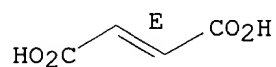
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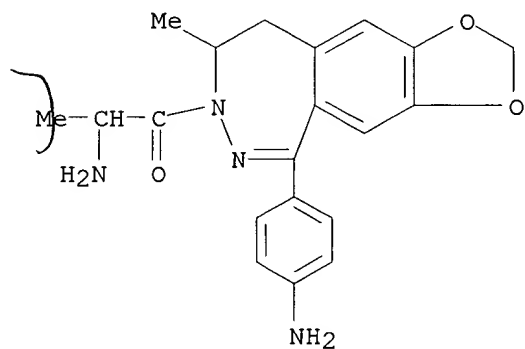
CM 2

CRN 110-17-8
CMF C4 H4 O4
CDES 2:E

Double bond geometry as shown.



RN 143691-90-1 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(2-amino-1-oxopropyl)-5-(4-aminophenyl)-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)

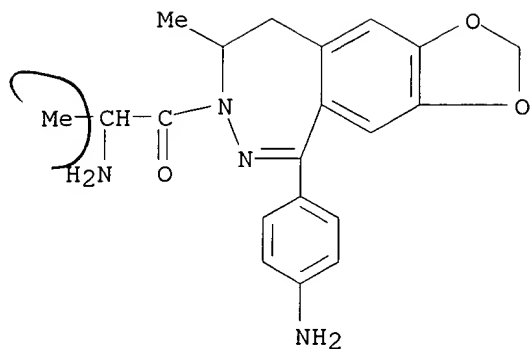


RN 143691-91-2 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(2-amino-1-oxopropyl)-5-(4-aminophenyl)-8,9-dihydro-8-methyl-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 143691-90-1
CMF C20 H22 N4 O3

09/485,441



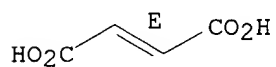
CM 2

CRN 110-17-8

CMF C4 H4 O4

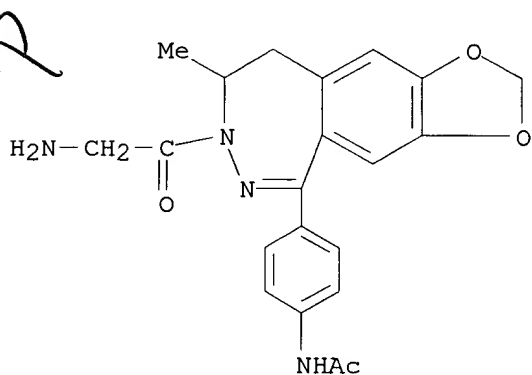
CDES 2:E

Double bond geometry as shown.



RN 143691-93-4 CAPLUS

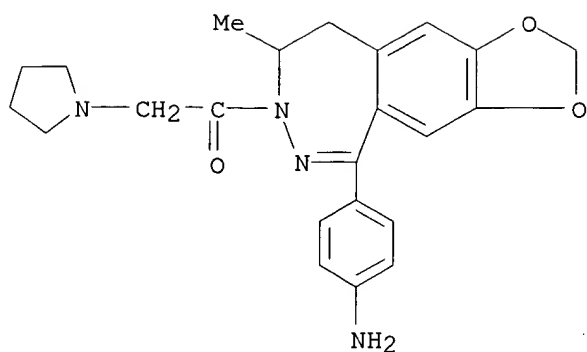
CN Acetamide, N-[4-[7-(aminoacetyl)-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 143692-19-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-(1-pyrrolidinylacetyl)- (9CI) (CA INDEX NAME)

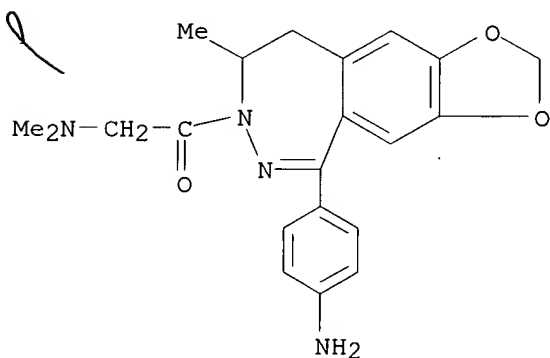
09/485,441



RN 143692-21-1 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-7-
[(dimethylamino)acetyl]-8,9-dihydro-8-methyl-, (2E)-2-butenedioate (1:1)
(9CI) (CA INDEX NAME)

CM 1

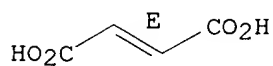
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CMF C21 H24 N4 O3



CM 2

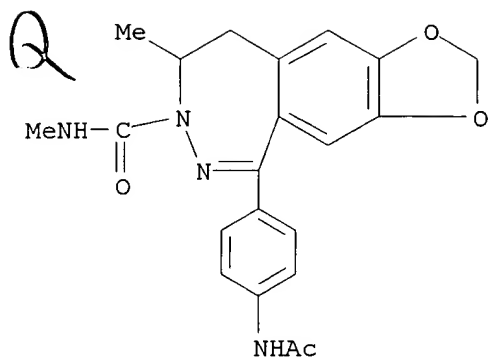
CRN 110-17-8
CMF C4 H4 O4
CDES 2:E

Double bond geometry as shown.



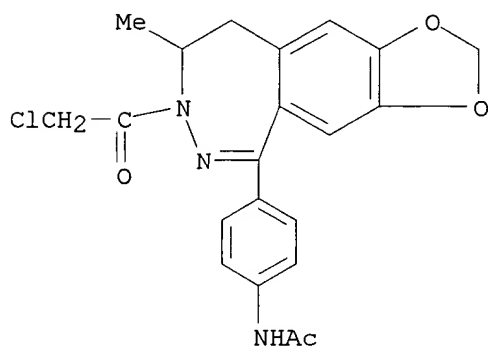
RN 143692-26-6 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-[4-(acetilamino)phenyl]-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)

09/485,441



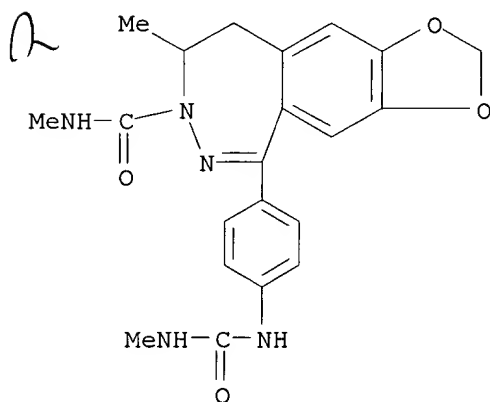
RN 143692-32-4 CAPLUS

CN Acetamide, N-[4-[7-(chloroacetyl)-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



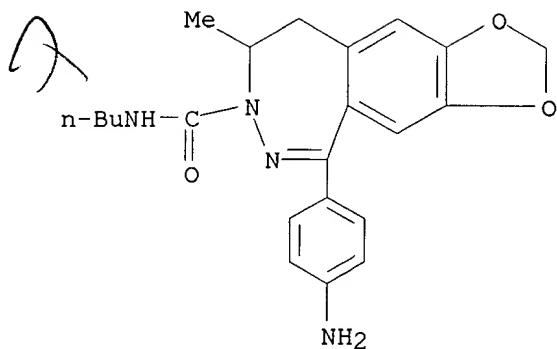
RN 143692-35-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 8,9-dihydro-N,8-dimethyl-5-[4-[(methylamino)carbonyl]amino]phenyl]- (9CI) (CA INDEX NAME)

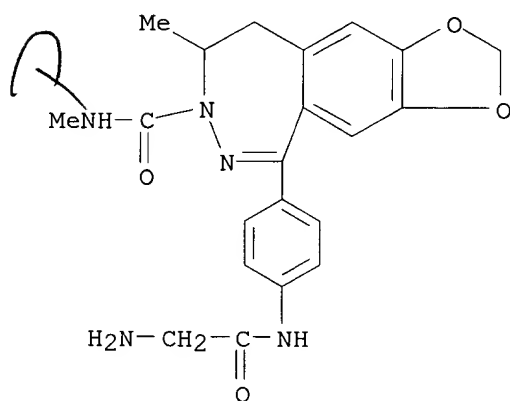


RN 143692-36-8 CAPLUS

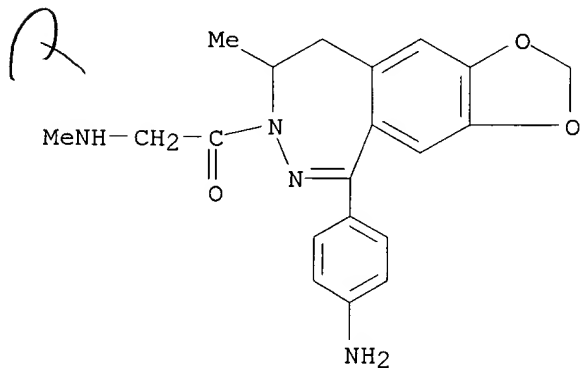
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-N-butyl-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)



RN 143692-37-9 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
 5-[4-[(aminoacetyl)amino]phenyl]-8,9-dihydro-N,8-dimethyl- (9CI) (CA
 INDEX NAME)



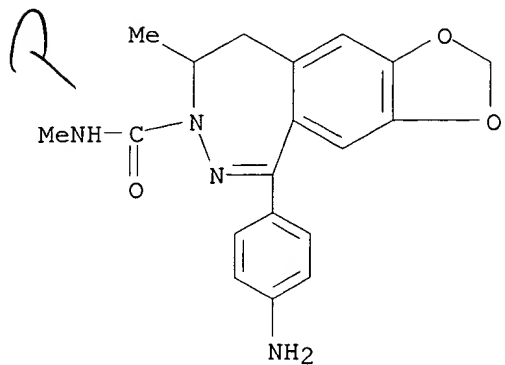
RN 143692-38-0 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-
 methyl-7-[(methylamino)acetyl]- (9CI) (CA INDEX NAME)



RN 143692-48-2 CAPLUS

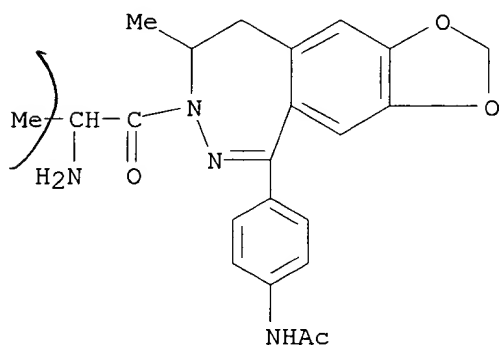
09/485,441

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA
INDEX NAME)



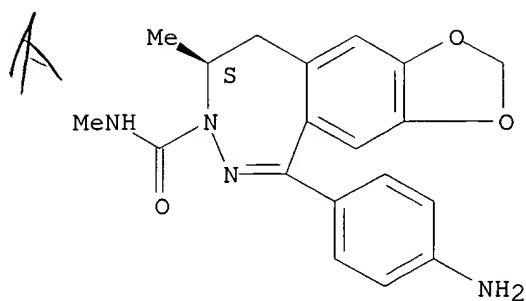
● HCl

RN 143715-46-2 CAPLUS
CN Acetamide, N-[4-[7-(2-amino-1-oxopropyl)-8,9-dihydro-8-methyl-7H-1,3-
dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



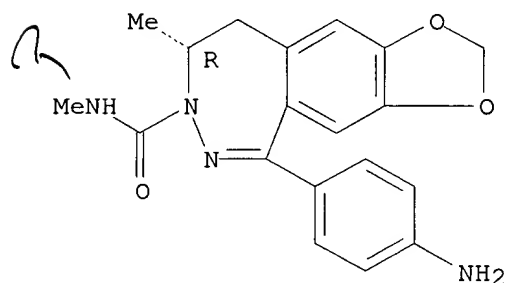
RN 161832-69-5 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

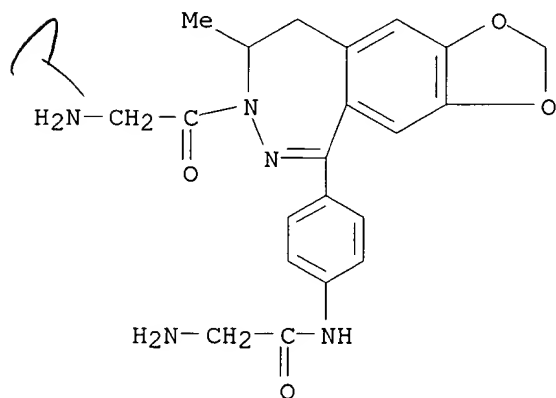


RN 161832-71-9 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 173087-57-5 CAPLUS
 CN Acetamide, 2-amino-N-[4-[7-(aminoacetyl)-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)

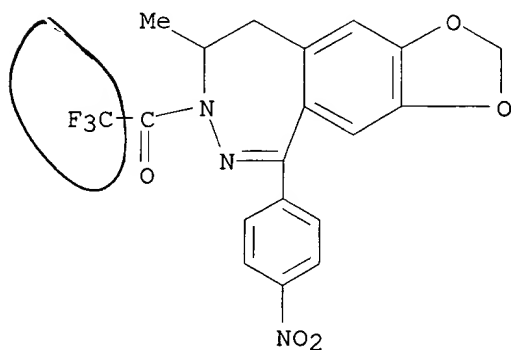


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 143692-09-5P 143692-12-0P 143692-13-1P
 143692-50-6P 143692-51-7P 143692-52-8P
 161832-68-4P 161832-70-8P 173087-60-0P
 173087-61-1P 173087-62-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (N-acylated 1-(4-aminophenyl)-4-methyl-7,8-methylenedioxy-3,4-dihydro-
 5H-2,3-benzodiazepines as anticonvulsants, muscle relaxants, and
 neuroprotective agents)

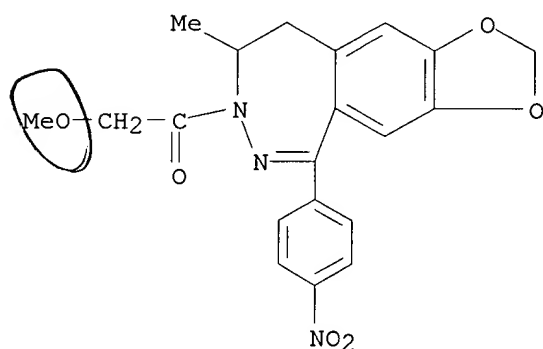
RN 143691-47-8 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-8-methyl-5-(4-nitrophenyl)-7-(trifluoroacetyl)- (9CI) (CA INDEX NAME)



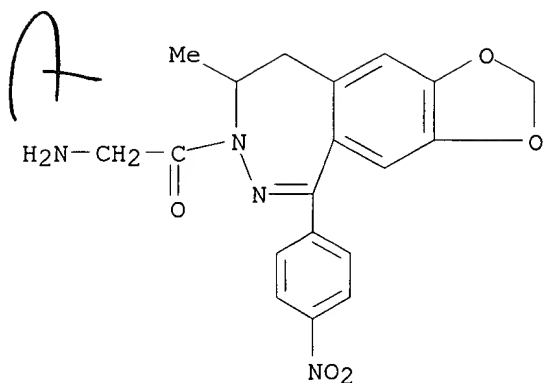
RN 143691-55-8 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-7-(methoxyacetyl)-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



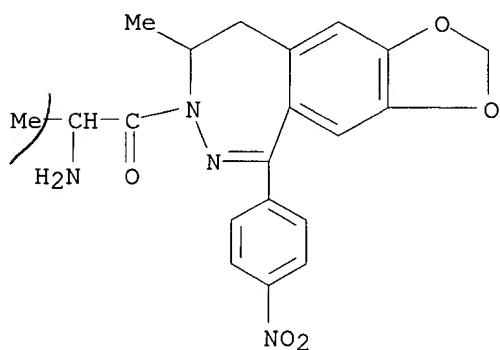
RN 143692-02-8 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(aminoacetyl)-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



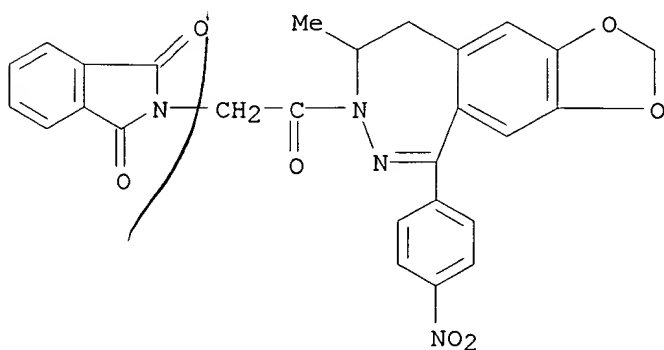
RN 143692-04-0 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(2-amino-1-oxopropyl)-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



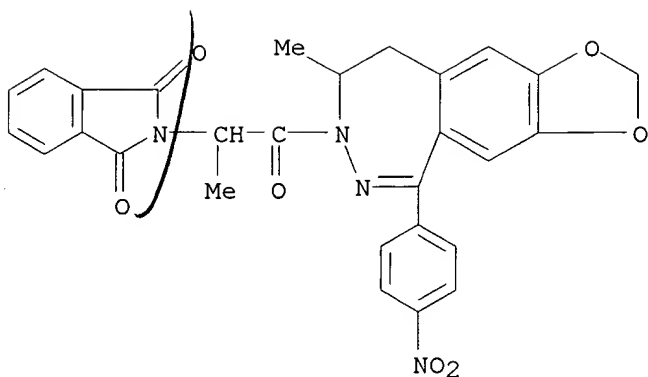
RN 143692-05-1 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)acetyl]-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



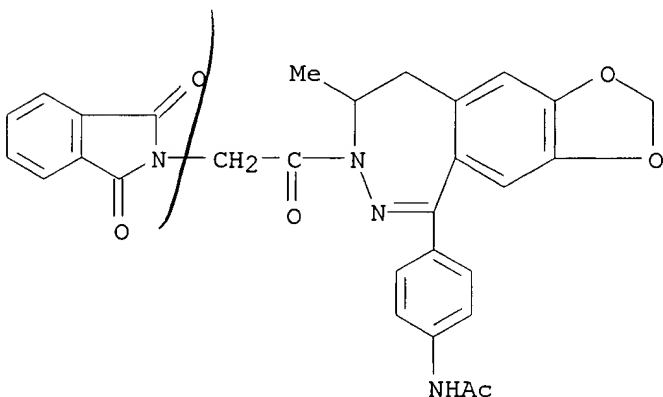
RN 143692-07-3 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-1-oxopropyl]-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



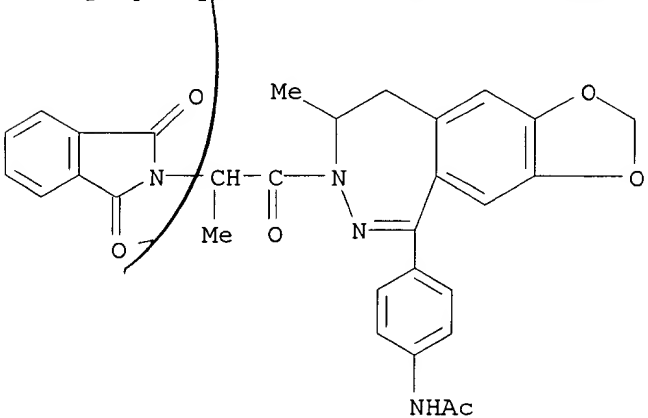
RN 143692-09-5 CAPLUS

CN Acetamide, N-[4-[7-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)acetyl]-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 143692-12-0 CAPLUS

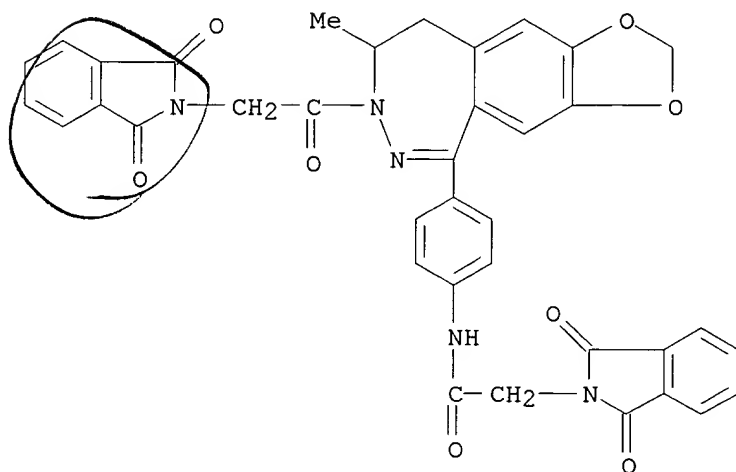
CN Acetamide, N-[4-[7-[2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-1-oxopropyl]-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 143692-13-1 CAPLUS

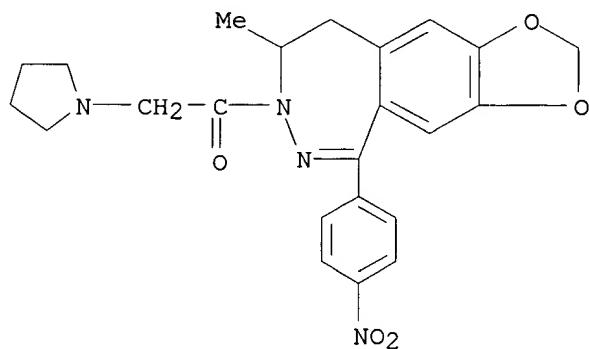
CN 2H-Isoindole-2-acetamide, N-[4-[7-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-

yl)acetyl]-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]-1,3-dihydro-1,3-dioxo- (9CI) (CA INDEX NAME)



RN 143692-50-6 CAPLUS

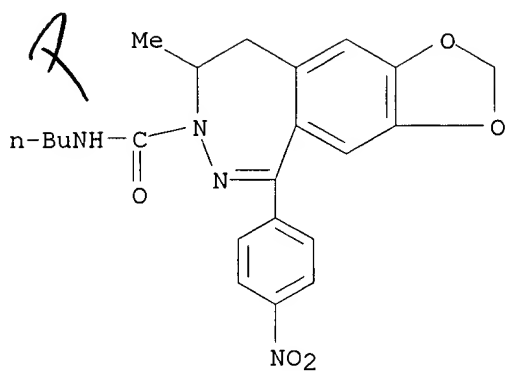
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-8-methyl-5-(4-nitrophenyl)-7-(1-pyrrolidinylacetyl)- (9CI) (CA INDEX NAME)



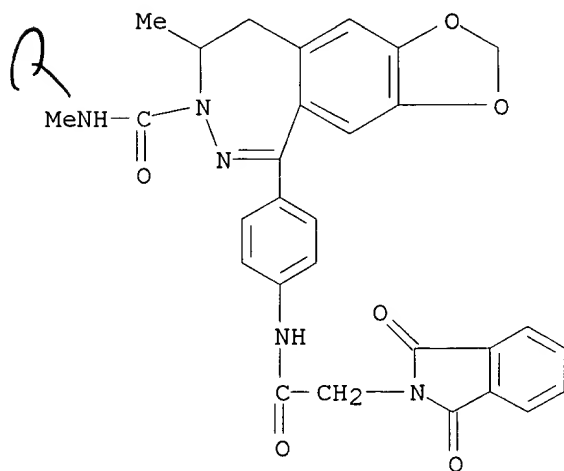
RN 143692-51-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, N-butyl-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

09/485,441

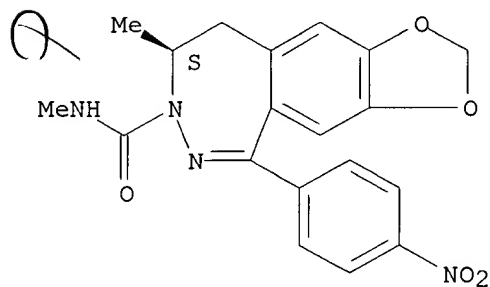


RN 143692-52-8 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-[4-[[[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)acetyl]amino]phenyl]-8,9-
dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)



RN 161832-68-4 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
8,9-dihydro-N,8-dimethyl-5-(4-nitrophenyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

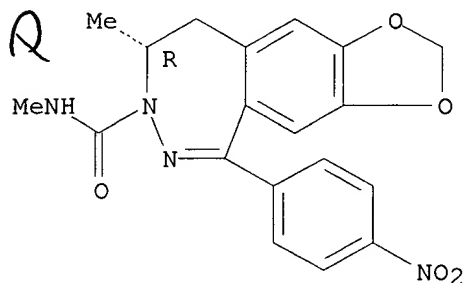


RN 161832-70-8 CAPLUS

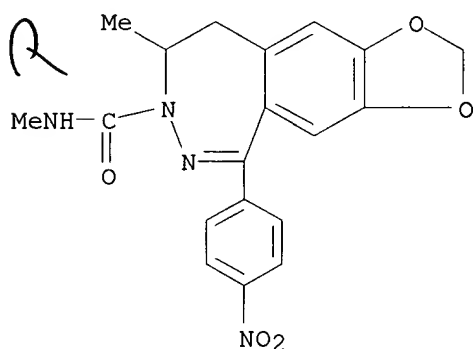
09/485,441

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
8,9-dihydro-N,8-dimethyl-5-(4-nitrophenyl)-, (R)- (9CI) (CA INDEX NAME)

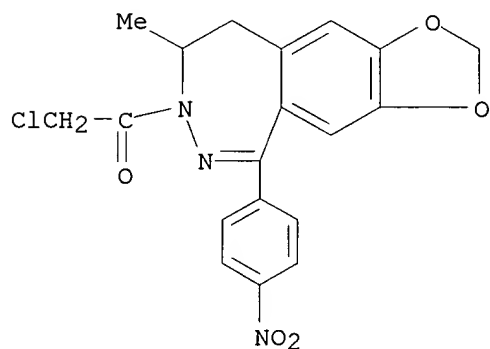
Absolute stereochemistry.



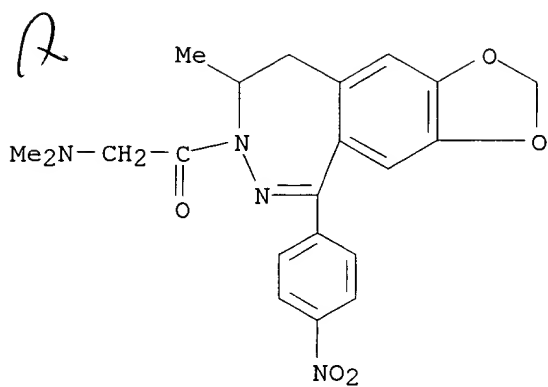
RN 173087-60-0 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
8,9-dihydro-N,8-dimethyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 173087-61-1 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(chloroacetyl)-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

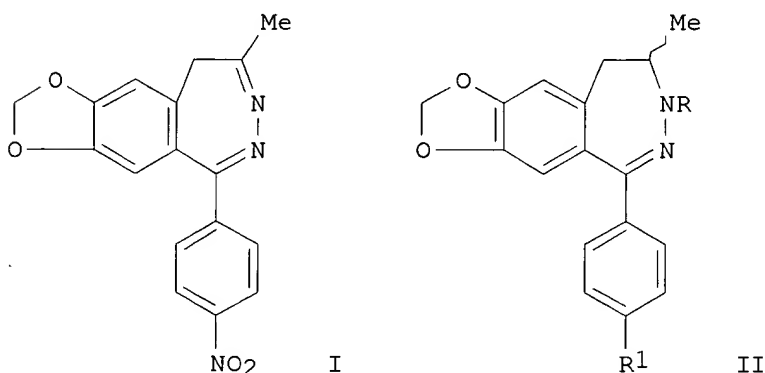


RN 173087-62-2 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[(dimethylamino)acetyl]-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



09/485,441

LI4 ANSWER 33 OF 42 CAPLUS COPYRIGHT 2002 ACS
AK 1995:628706 CAPLUS
DN 123:285961
TI Asymmetric reduction of a carbon-nitrogen double bond: enantioselective
synthesis of 4,5-dihydro-3H-2,3-benzodiazepines
AU Ling, Istvan; Podanyi, Benjamin; Hamori, Tamas; Solyom, Sandor
CS Inst. Drug Res. Lab., Budapest, H-1325, Hung.
SO J. Chem. Soc., Perkin Trans. 1 (1995), (11), 1423-7
CODEN: JCPRB4; ISSN: 0300-922X
DT Journal
LA English
OS CASREACT 123:285961
GI



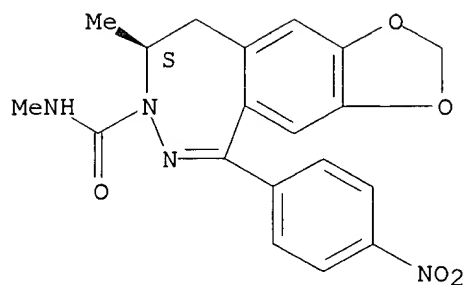
AB A highly specific enantioselective redn., elaborated for the redn. of the 3,4-carbon-nitrogen double bond of I, made possible the synthesis of the enantiomers of the potent noncompetitive AMPA/kainate antagonists II (R = Ac, CONHMe; R1 = NH2). E.g., a reducing complex prepd. from (S)-(-)-2-amino-4-methyl-1,1-diphenyl-1-pentanol and BH3.THF was used to reduce I to give 68% (-)-II (R = H, R1 = NO2). NMR Investigations of the reducing complex show that there is no formation of an 1,3,2-oxazaborolidine ring as may have been presumed on the basis of literature data.

IT **161832-68-4P 161832-70-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(enantioselective synthesis of dihydrobenzodiazepines by asym. redn. of a carbon-nitrogen double bond)

RN 161832-68-4 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 8,9-dihydro-N,8-dimethyl-5-(4-nitrophenyl)-, (S)- (9CI) (CA INDEX NAME)

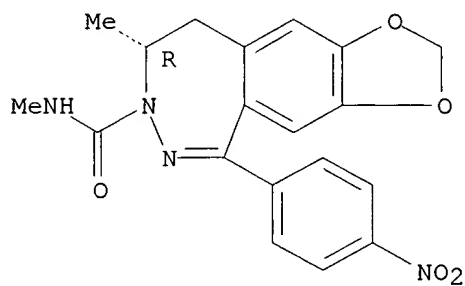
Absolute stereochemistry.

09/485,441



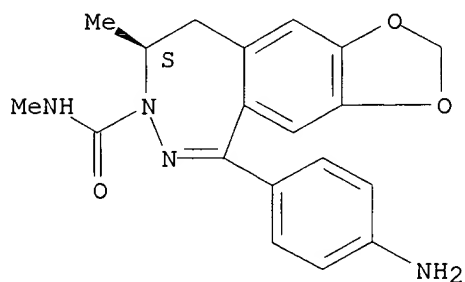
RN 161832-70-8 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
8,9-dihydro-N,8-dimethyl-5-(4-nitrophenyl)-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 161832-69-5P 161832-71-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(enantioselective synthesis of dihydrobenzodiazepines by asym. redn. of
a carbon-nitrogen double bond)
RN 161832-69-5 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8S)- (9CI) (CA INDEX NAME)

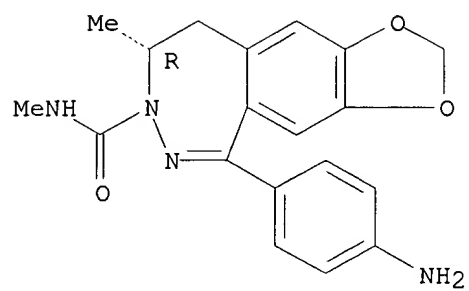
Absolute stereochemistry. Rotation (+).



RN 161832-71-9 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8R)- (9CI) (CA INDEX NAME)

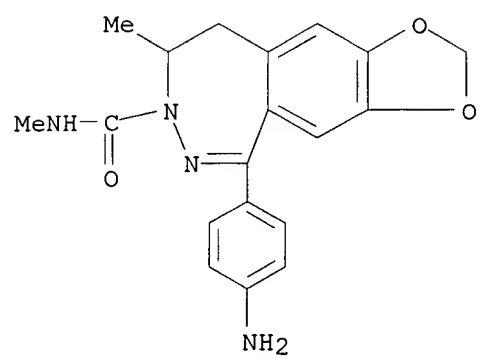
Absolute stereochemistry. Rotation (-).

09/485,441



~~LI~~ ANSWER 34 OF 42 CAPLUS COPYRIGHT 2002 ACS
 AN 1995:469736 CAPLUS
 DN 122:230664
 TI Differential antagonism of .alpha.-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid-preferring and kainate-preferring receptors by 2,3-benzodiazepines
 AU Wilding, Timothy J.; Huettner, James E.
 CS Dep. Cell Biology Physiology, Washington Univ. School Medicine, St. Louis, MO, 63110, USA
 SO Mol. Pharmacol. (1995), 47(3), 582-7
 CODEN: MOPMA3; ISSN: 0026-895X
 DT Journal
 LA English
 AB Whole-cell recordings were used to study the antagonism of .alpha.-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA)-preferring and kainate-preferring receptors by 2,3-benzodiazepines. Current through kainate-preferring receptors was recorded in rat dorsal root ganglion (DRG) neurons, whereas AMPA receptor current was measured in cultured neurons from rat cerebral cortex. In both cell types 2,3-benzodiazepines produced noncompetitive inhibition; however, antagonist potency was much higher against AMPA-preferring receptors than against kainate receptors. The most potent compd., 1-(4-aminophenyl)-3-methylcarbaryl-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine (GYKI 53655), blocked AMPA receptor currents with an IC50 of approx. 1 .mu.M. A second benzodiazepine, 1-(4-aminophenyl)-4-methyl-7,8-methylenedioxy-5H-2,3-benzodiazepine (GYKI 52466), was about 20-fold less potent at AMPA receptors (IC50 = 18 .mu.M). Both drugs were markedly weaker against kainate currents in DRG neurons. At 200 .mu.M, the highest concn. tested, GYKI 53655 and GYKI 52466 produced only 30-40% inhibition in DRG cells, suggesting that for both compds. the IC50 against kainate receptors is >200 .mu.M. Our study suggests that GYKI 53655, at a concn. of approx. 10 .mu.M, should produce >90% block of AMPA-preferring receptors but <5% inhibition of kainate-preferring receptors. Because the antagonism by this drug is noncompetitive, its effectiveness should not be influenced by phasic changes in transmitter concn., making it an ideal compd. for functional studies of the role of kainate and AMPA receptors in synaptic transmission.
 IT **143692-48-2**, GYKI 53655
 RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
 (differential antagonism of AMPA-preferring and kainate-preferring receptors by benzodiazepines)
 RN 143692-48-2 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

09/485,441

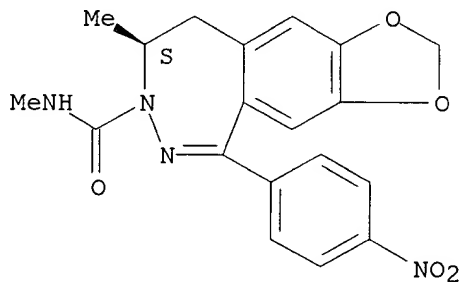


● HCl

14 ANSWER 35 OF 42 CAPLUS COPYRIGHT 2002 ACS
 AN 1995:446748 CAPLUS
 DN 122:214111
 TI Preparation of optically active 1-(4-nitrophenyl)-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine
 IN Ling, Istvan; Hamori, Tamas; Botka, Peter; Solyom, Sandor; Simay, Antal; Moravcsik, Imre
 PA Gyogyszerkutato Intezet, Hung.
 SO PCT Int. Appl., 19 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9501357	A1	19950112	WO 1994-HU24	19940630
	W: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, UZ, VN				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	HU 67611	A2	19950428	HU 1993-1922	19930702
	HU 219777	B	20010730		
	AU 9472363	A1	19950124	AU 1994-72363	19940630
PRAI	HU 1993-1922	A	19930702		
	WO 1994-HU24	W	19940630		
OS	MARPAT 122:214111				
AB	(+)- And (-)-enantiomers of the title compd. (I) were prepd. by redn. of 1-(4-nitrophenyl)-4-methyl-7,8-methylenedioxy-5H-2,3-benzodiazepine (II) by an adduct formed from (R)- or (S)-H ₂ NCR ₁ R ₂ CPh ₂ OH (R ₁ , R ₂ = alkyl, Ph, PhCH ₂ , etc.; R ₁ .noteq. R ₂) with 1 mol equiv. of borane or a borane complex. Thus, II was treated with BH ₃ -THF complex in CH ₂ Cl ₂ contg. (S)-(-)-H ₂ NCR ₁ R ₂ CPh ₂ OH to give 88.6% I comprising (-)-I and (+)-I in 90:10 mol ratio.				
IT	161832-68-4P 161832-70-8P RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. of optically active 1-(4-nitrophenyl)-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine)				
RN	161832-68-4 CAPLUS				
CN	7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 8,9-dihydro-N,8-dimethyl-5-(4-nitrophenyl)-, (S)- (9CI) (CA INDEX NAME)				

Absolute stereochemistry.

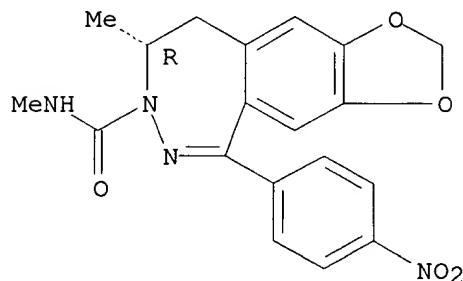


RN 161832-70-8 CAPLUS

09/485,441

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
8,9-dihydro-N,8-dimethyl-5-(4-nitrophenyl)-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



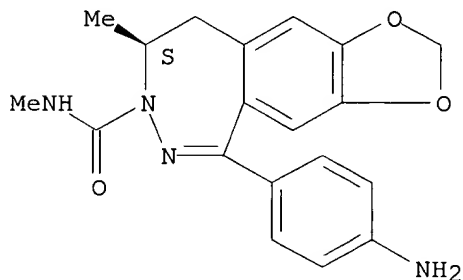
IT 161832-69-5P 161832-71-9P

RL: PNU (Preparation, unclassified); PREP (Preparation)
(prepn. of optically active 1-(4-nitrophenyl)-4-methyl-7,8-
methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine)

RN 161832-69-5 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8S)- (9CI) (CA INDEX NAME)

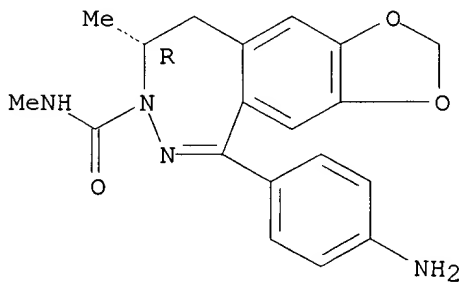
Absolute stereochemistry. Rotation (+).



RN 161832-71-9 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, (8R)- (9CI) (CA INDEX NAME)

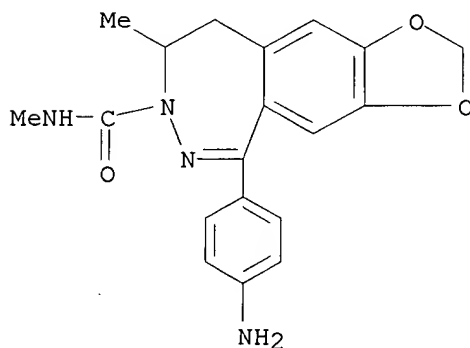
Absolute stereochemistry. Rotation (-).



ANSWER 36 OF 42 CAPLUS COPYRIGHT 2002 ACS
1995:327008 CAPLUS
122:97039
Selective antagonism of AMPA receptors unmasks kainate receptor-mediated responses in hippocampal neurons
Paternain, Ana V.; Morales, Miguel; Lerma, Juan
Departamento de Plasticidad Neural, Instituto Cajal, Madrid, 28002, Spain
Neuron (1995), 14(1), 185-9
CODEN: NERNET; ISSN: 0896-6273
Journal
English
Although both protein and mRNAs for kainate receptor subunits are abundant in several brain regions, the responsiveness of AMPA receptors to kainate has made it difficult to demonstrate the presence of functional kainate-type receptors in native cells. Recently, however, the authors have shown that many hippocampal neurons in culture express glutamate receptors of the kainate type. The large nondesensitizing response that kainate induces at AMPA receptors precludes detection and anal. of smaller, rapidly desensitizing currents induced by kainate at kainate receptors. Consequently, the functional significance of these strongly desensitizing glutamate receptors remains enigmatic. The authors report here that the family of new noncompetitive antagonists of AMPA receptors (GYKI 52466 and 53655) minimally affects kainate-induced responses at kainate receptors while completely blocking AMPA receptor-mediated currents, making it possible to sep. the responses mediated by each receptor. These compds. will allow detn. of the role played by kainate receptors in synaptic transmission and plasticity in the mammalian brain, as well as evaluation of their involvement in neurotoxicity.

143692-48-2, GYKI 53655
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
(selective antagonism of AMPA receptors unmasks kainate receptor-mediated responses in hippocampal neurons)

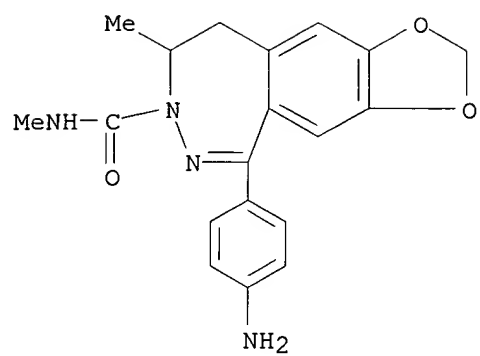
143692-48-2 CAPLUS
7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



HCl

✓
LX4 ANSWER 37 OF 42 CAPLUS COPYRIGHT 2002 ACS
AN 1995:310928 CAPLUS
DN 122:96281
TI Cyclothiazide acts at a site on the .alpha.-amino-3-hydroxy-5-methyl-4-isoxazole propionic acid receptor complex that does not recognize competitive or noncompetitive AMPA receptor antagonists
AU Desai, Manisha A.; Burnett, J. Paul; Ornstein, Paul L.; Schoepp, Darryle D.
CS Lilly Res. Lab., Eli Lilly and Company, Indianapolis, IN, USA
SO J. Pharmacol. Exp. Ther. (1995), 272(1), 38-43
CODEN: JPETAB; ISSN: 0022-3565
DT Journal
LA English
AB Activation of the .alpha.-amino-3-hydroxy-5-methyl-4-isoxazole propionic acid (AMPA) subtype of ionotropic glutamate receptors by certain agonists, including AMPA and glutamate, has been shown to result in a rapid desensitization of the receptor. This desensitization is profoundly inhibited by the benzothiadiazide diuretic, cyclothiazide. The authors previously reported that cyclothiazide potentiates AMPA-induced [3H]norepinephrine ([3H]NE) release from rat hippocampal slices. The authors used this system to investigate the possible interaction of cyclothiazide with various AMPA receptor antagonists, including the competitive antagonist LY293558 and the 2,3-benzodiazepine noncompetitive antagonist GYKI 53655. Cyclothiazide significantly potentiated both AMPA- and kainic acid (KA)-induced [3H]NE release from slices of the rat hippocampus. LY293558 and GYKI 53655 inhibited the potentiated and nonpotentiated AMPA- and KA-induced [3H]NE release in a concn.-dependent manner. The IC50 values for inhibition of AMPA- or KA-induced [3H]NE release by either antagonist were not affected by the presence of cyclothiazide. Thus, cyclothiazide seems to interact at a site on the AMPA receptor complex which differs from either the glutamate recognition site or the 2,3-benzodiazepine allosteric site.
IT **143692-48-2**, GYKI 53655
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
(cyclothiazide acts at site on aminohydroxymethylisoxazole propionic acid (AMPA) receptor complex that does not recognize competitive or noncompetitive AMPA receptor antagonists)
RN 143692-48-2 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

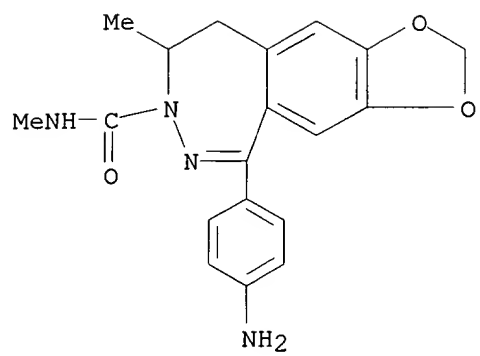
09/485,441



● HCl

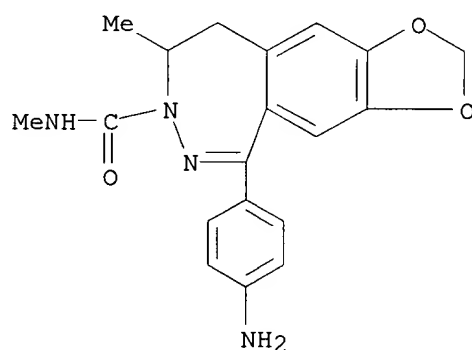
~~DN~~ 4 ANSWER 38 OF 42 CAPLUS COPYRIGHT 2002 ACS
AN 1995:188938 CAPLUS
DN 122:896
TI Non-N-methyl-D-aspartate receptor antagonism by 3-N-substituted
2,3-benzodiazepines: relationship to anticonvulsant activity
AU Donevan, Sean D.; Yamaguchi, Shun-ichi; Rogawski, Michael A.
CS Natl. Inst. Neurol. Disorders Stroke, Natl. Inst. Health, Bethesda, MD,
USA
SO J. Pharmacol. Exp. Ther. (1994), 271(1), 25-9
CODEN: JPETAB; ISSN: 0022-3565
DT Journal
LA English
AB Block of AMPA (.alpha.-amino-3-hydroxy-5-methyl-4-isoxazolepropionate) and
kainate currents by GYKI 52466 [1-(4-aminophenyl)-4-methyl-7,8-
methylenedioxy-5H-2,3-benzodiazepine], a noncompetitive
non-N-methyl-D-aspartate (AMPA/kainate) receptor antagonist, and two
3-N-substituted 3,4-reduced GYKI 52466 analogs was assessed in whole cell
voltage-clamp recordings from cultured rat hippocampal neurons. In addn.,
the activity of the analogs was detd. in the maximal electroshock seizure
test and for protection against kainate-induced seizures in mice. The
analogs of GYKI 52466 tested were the 3-N-methylcarbamyl [GYKI 53655;
1-(4-aminophenyl)-3-methylcarbamyl-4-methyl-3,4-dihydro-7,8-methylenedioxy-
5H-2,3-benzodiazepine] and the 3-N-acetyl [GYKI 53405;
1-(4-aminophenyl)-3-acetyl-4-methyl-3,4-dihydro-7,8-methylenedioxy-5H-2,3-
benzodiazepine]. GYKI 53655 produced a concn.-dependent inhibition of
AMPA- and kainate-induced currents with IC50 values of 1.1 and 1.5 .mu.M,
resp.; the corresponding values for GYKI 53405 were 3.8 and 5.0 .mu.M. As
blockers of AMPA currents, the analogs were 8- and 2.3-fold, resp., more
potent than the parent GYKI 52466. Kinetic analyses indicated increased
assocn. rates for the two 3-N-substituted analogs (2.5-2.6 .times. 105 M-1
sec-1) compared with GYKI 52466 (1.6 .times. 105 M-1 sec-1). The dissocn.
rates of GYKI 52466, GYKI 53405 and GYKI 53655 were inversely correlated
with increasing blocking potency (2.9, 1.7 and 0.6 s-1, resp.). Thus, the
increased affinity of the 3-N-substituted analogs relates to their
increased binding and decreased unbinding rates. In anticonvulsant
testing in vivo, GYKI 53655 and GYKI 53405 had ED50 values against kainate
(32 mg/kg s.c.) seizures of 4.6 and 7.5 mg/kg i.p., compared with 8.4
mg/kg for GYKI 52466. The corresponding values in the maximal
electroshock seizure test were 4.6 and 5.9 mg/kg, compared with 11.8 mg/kg
for GYKI 52466. The rank order of potencies of the three compds. in vivo
corresponds with their in vitro potencies, supporting the view that the
anticonvulsant activity is related to blockade of non-N-methyl-D-aspartate
receptors.
IT **143692-48-2**, GYKI 53655
RL: BAC (Biological activity or effector, except adverse); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
(non-NMDA receptor antagonism by 3-N-substituted 2,3-benzodiazepines:
relationship to anticonvulsant activity)
RN 143692-48-2 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA
INDEX NAME)

09/485,441



● HCl

L14 ANSWER 39 OF 42 CAPLUS COPYRIGHT 2002 ACS
AN 1994:525058 CAPLUS
DN 121:125058
TI A comparison of intravenous NBQX and GYKI 53655 as AMPA antagonists in the rat spinal cord
AU Chizh, Boris A.; Cumberbatch, Michael J.; Headley, P. Max
CS School of Medical Sciences, University of Bristol, Bristol, BS8 1TD, UK
SO Br. J. Pharmacol. (1994), 112(3), 843-6
CODEN: BJPCBM; ISSN: 0007-1188
DT Journal
LA English
AB The effects of i.v. administration of two .alpha.-amino-3-hydroxy-5-methylisoxazole-4-propionic acid (AMPA) antagonists were studied on responses of single neurons to iontophoretically applied excitatory amino acids. The tests were performed on spinal neurons in .alpha.-chloralose anesthetized, spinalized rats. Both the quinoxaline, NBQX (2-16 mg kg⁻¹) and the 2,3-benzodiazepine, GYKI 53655 (2-8 mg kg⁻¹) dose-dependently decreased responses to AMPA. Both compds. were short acting, with half-recovery times of 15 min for NBQX and 7 min for GYKI 53655. The selectivity for responses to AMPA over those to N-methyl-D-aspartate (NMDA) was significantly poorer for systemic NBQX than for either systemic GYKI 53655 or iontophoretic NBQX, suggesting that systemic NBQX may be converted to a less selective metabolite. GYKI 53655 is therefore likely to be a more valuable tool than NBQX for the study of AMPA receptor-mediated processes in vivo.
IT **143692-48-2**, GYKI 53655
RL: BIOL (Biological study)
(AMPA antagonist, in spinal cord, NBQX comparison with)
RN 143692-48-2 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

~~DA~~4 ANSWER 40 OF 42 CAPLUS COPYRIGHT 2002 ACS
AN 1993:183232 CAPLUS
DN 118:183232
TI Cyclothiazide reverses AMPA receptor antagonism of the 2,3-benzodiazepine,
GYKI 53655
AU Palmer, Andrew J.; Lodge, David
CS Dep. Vet. Basic Sci., R. Vet. Coll., London, NW1 0TU, UK
SO Eur. J. Pharmacol., Mol. Pharmacol. Sect. (1993), 244(2), 193-4
CODEN: EJPPET; ISSN: 0922-4106
DT Journal
LA English
AB On rat cortical slices, cyclothiazide, 1-100 .mu.M, (ED50 = 7.1 .mu.M)
enhanced the depolarizing action of .alpha.-amino-3-hydroxy-5-
methylisoxazole-4-propionate (AMPA) but not that of N-methyl-D-aspartate
(NMDA). Cyclothiazide 10 .mu.M also reversed the action of a
2,3-benzodiazepine, GYKI 53655, which is a non-competitive AMPA receptor
antagonist, but not that of the quinoxalinedione, NBQX, which is a
competitive AMPA receptor antagonist.
IT **146908-67-0**, GYKI 53655
RL: BIOL (Biological study)
(AMPA receptor antagonism of, cyclothiazide reversal of)
RN 146908-67-0 CAPLUS

L14 ANSWER 41 OF 42 CAPLUS COPYRIGHT 2002 ACS

AN 1993:139236 CAPLUS

DN 118:139236

TI Structure-activity relationships of 2,3-benzodiazepine compounds with glutamate antagonistic action

AU Tarnawa, Istvan; Berzsenyi, Pal; Andrasi, Ferenc; Botka, Peter; Hamori, Tamas; Ling, Istvan; Korosi, Jenő

CS Inst. Drug Res., Budapest, H-1325, Hung.

SO Bioorg. Med. Chem. Lett. (1993), 3(1), 99-104

CODEN: BMCLE8; ISSN: 0960-894X

DT Journal

LA English

AB A series of N-substituted 1-(4'-aminophenyl)-4-methyl-3,4-dihydro-7,8-methylenedioxy-5H-2,3-benzodiazepines, structural analogs of the selective non-NMDA antagonist GYKI 52466, have been synthesized and tested for biol. activity, in vivo and in vitro.

IT 143691-38-7 143691-45-6 143691-57-0

143691-88-7 143691-90-1 143692-18-6

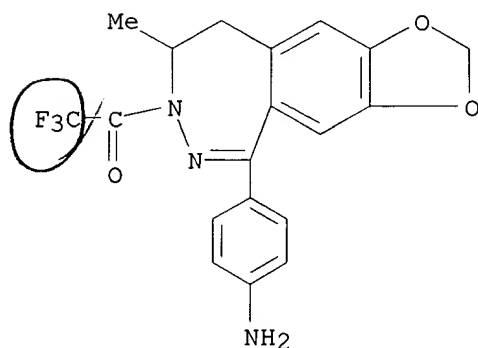
143692-20-0 143692-36-8 143692-38-0

RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)

(as GYKI 52466 benzodiazepine analogs, glutamate antagonist activity of, structure in relation to)

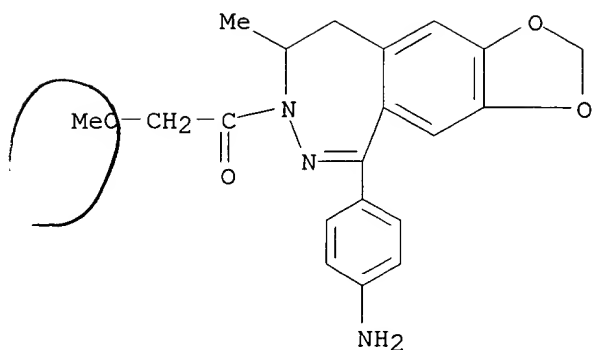
RN 143691-38-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-(trifluoroacetyl)- (9CI) (CA INDEX NAME)

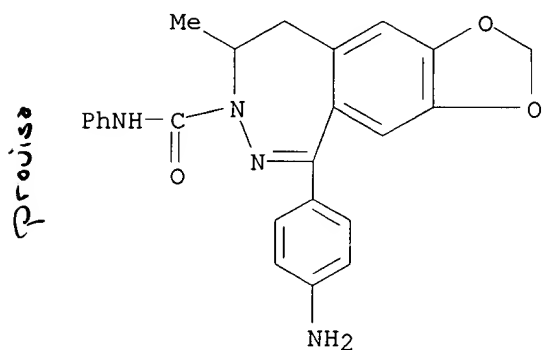


RN 143691-45-6 CAPLUS

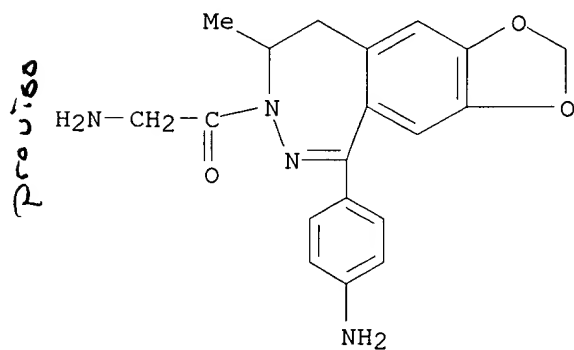
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-7-(methoxyacetyl)-8-methyl- (9CI) (CA INDEX NAME)



RN 143691-57-0 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
 5-(4-aminophenyl)-8,9-dihydro-8-methyl-N-phenyl- (9CI) (CA INDEX NAME)

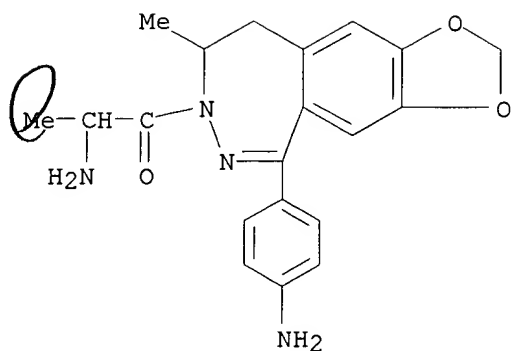


RN 143691-88-7 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(aminoacetyl)-5-(4-aminophenyl)-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)



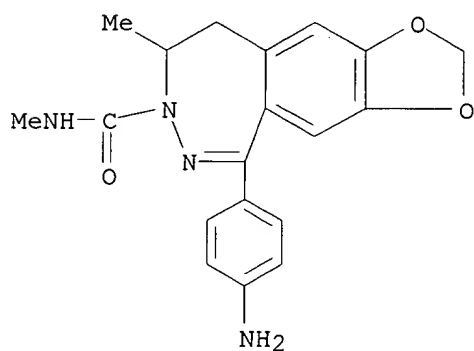
RN 143691-90-1 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(2-amino-1-oxopropyl)-5-(4-aminophenyl)-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)

09/485,441



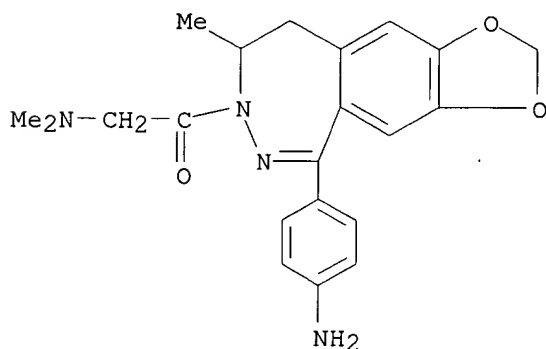
RN 143692-18-6 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)

Proviso

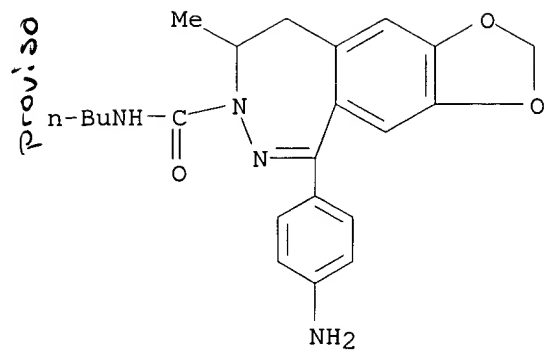


RN 143692-20-0 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-7-
[(dimethylamino)acetyl]-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)

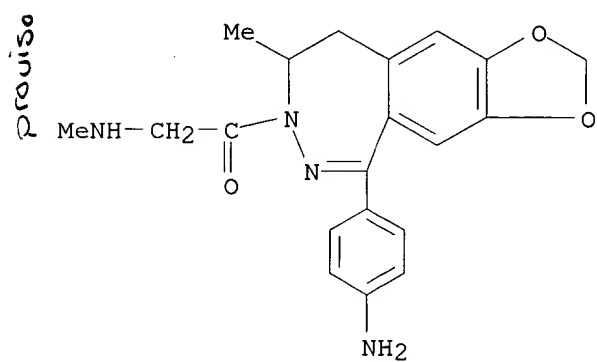
Proviso



RN 143692-36-8 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-N-butyl-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)



RN 143692-38-0 CAPLUS
 CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-[(methylamino)acetyl]- (9CI) (CA INDEX NAME)



~~L14~~ ANSWER 42 OF 42 CAPLUS COPYRIGHT 2002 ACS

~~AN~~ 1992:571479 CAPLUS

~~DN~~ 117:171479

TI Preparation of 1-(4-aminophenyl)-7,8-methylenedioxy-2,3-benzodiazepines as muscle relaxants, anticonvulsants, and cerebral antiischemics

IN Andrasi, Ferenc; Berzsenyi, Pal; Botka, Peter; Farkas, Sandor; Goldschmidt, Katalin; Hamori, Tamas; Korosi, Jeno; Moravcsik, Imre; Tarnawa, Istvan

PA Gyogyszerkutato Intezet, Hung.

SO Eur. Pat. Appl., 47 pp.

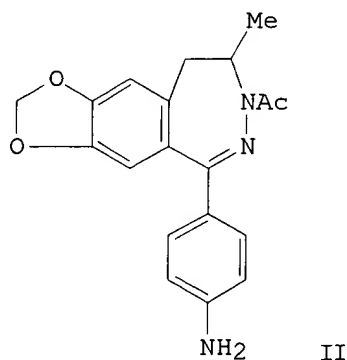
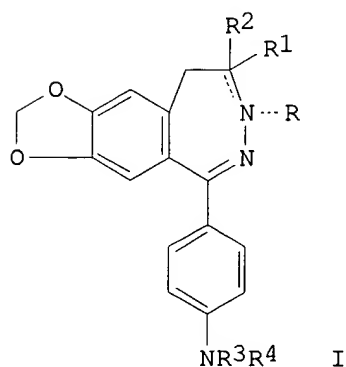
CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 492485	A1	19920701	EP 1991-121882	19911223
	EP 492485	B1	19971119		
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	HU 59684	A2	19920629	HU 1990-8398	19901221
	HU 219778	B	20010730		
	CA 2057504	AA	19920622	CA 1991-2057504	19911212
	BR 9105517	A	19920901	BR 1991-5517	19911219
	RU 2102387	C1	19980120	RU 1991-5010635	19911219
	FI 9106032	A	19920622	FI 1991-6032	19911220
	NO 9105060	A	19920622	NO 1991-5060	19911220
	AU 9189963	A1	19920625	AU 1991-89963	19911220
	AU 641578	B2	19930923		
	CN 1062730	A	19920715	CN 1991-111088	19911220
	CN 1041420	B	19981230		
	ZA 9110064	A	19921028	ZA 1991-10064	19911220
	JP 05070463	A2	19930323	JP 1991-354972	19911220
	JP 2756742	B2	19980525		
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	ES 2112848	T3	19980416	ES 1991-121882	19911223
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GI					



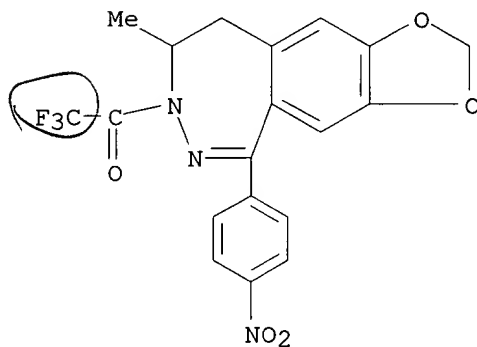
AB Title compds. [I; R = null, (substituted) aliph. acyl, PhCO, cyclopropanecarbonyl, alkylcarbamoyl, phenylcarbamoyl; R1 = H, null; R2 = C1-3 alkyl; R1R2 = CH2; R3 = H, aliph. acyl; R4 = H, (substituted) aliph. acyl, PhCO, palmitoyl, cyclopropanecarbonyl, alkylcarbamoyl, phenylcarbamoyl; dotted lines = optional double bonds] were prepd. Thus, 1-(4-aminophenyl)-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine in CHCl₃ was treated with Et₃N and then Ac₂O under ice cooling; the mixt. was stirred 2 h to give 85.7% title compd. II. II potentiated Na hexobarbital narcosis in mice with ED₅₀ = 3-6 mg/kg orally, and inhibited electroshock-induced convulsion in mice with ED₅₀ = 12.5 mg/kg orally. Tablets were prepd. contg. II.

IT 143691-47-8P 143691-55-8P 143692-02-8P
143692-04-0P 143692-05-1P 143692-07-3P
143692-09-5P 143692-12-0P 143692-13-1P
143692-51-7P 143692-52-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as intermediate for muscle relaxant and anticonvulsant)

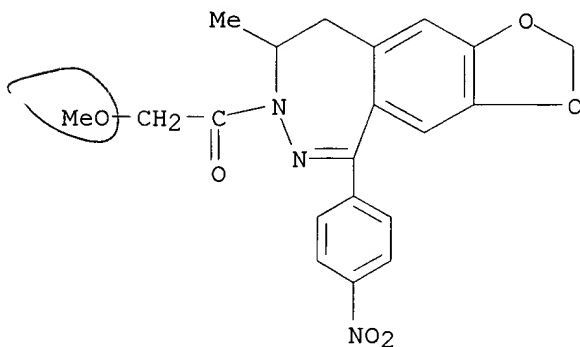
RN 143691-47-8 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-8-methyl-5-(4-nitrophenyl)-7-(trifluoroacetyl)- (9CI) (CA INDEX NAME)



RN 143691-55-8 CAPLUS

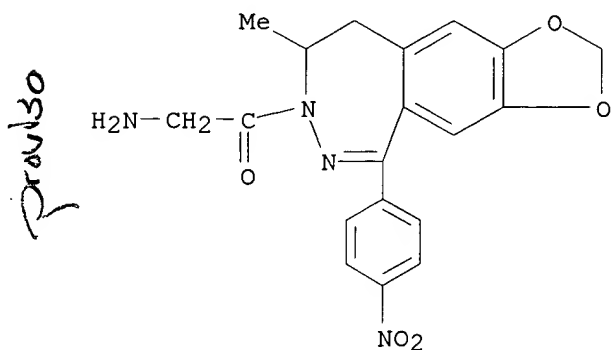
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-7-(methoxyacetyl)-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 143692-02-8 CAPLUS

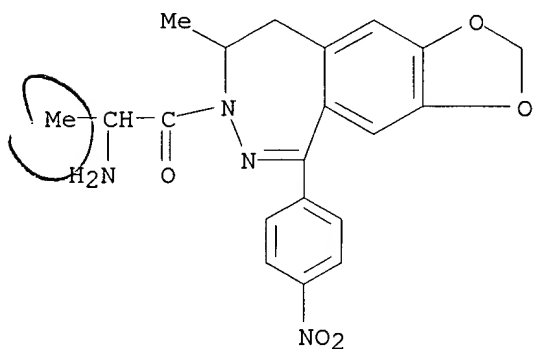
09/485,441

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(aminoacetyl)-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



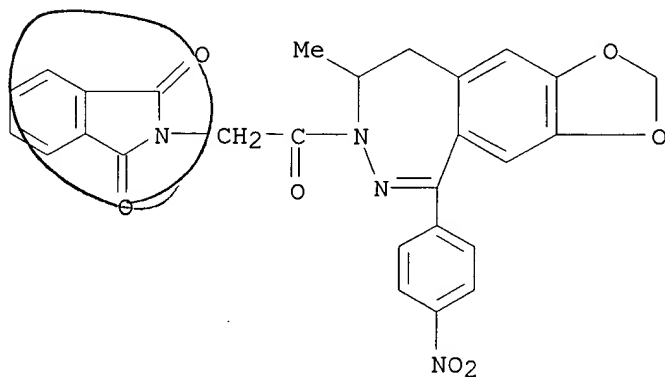
RN 143692-04-0 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(2-amino-1-oxopropyl)-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



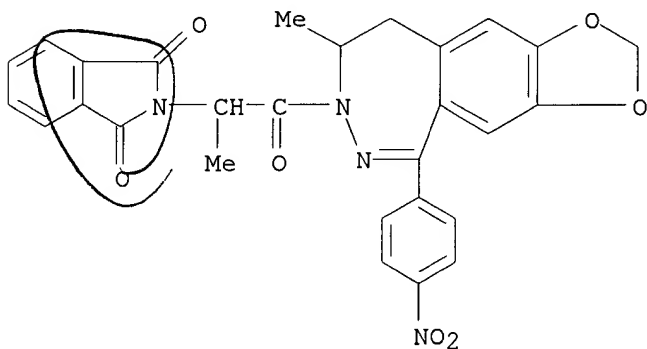
RN 143692-05-1 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)acetyl]-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

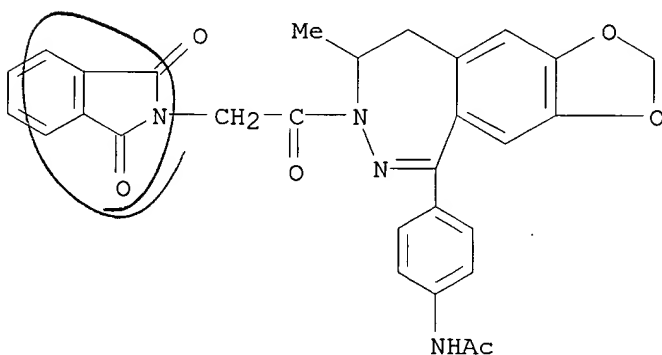


RN 143692-07-3 CAPLUS

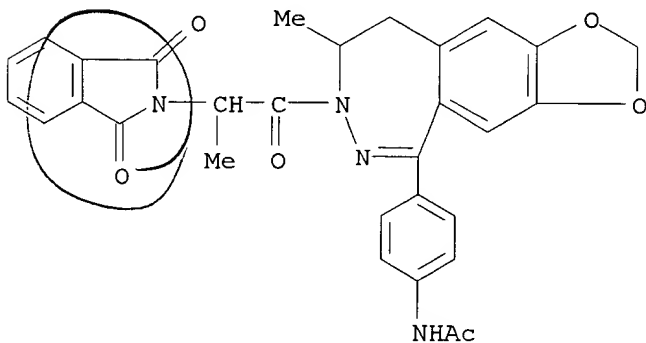
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-[2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-1-oxopropyl]-8,9-dihydro-8-methyl-1-(4-nitrophenyl)- (9CI)
(CA INDEX NAME)



RN 143692-09-5 CAPLUS
CN Acetamide, N-[4-[7-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)acetyl]-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)

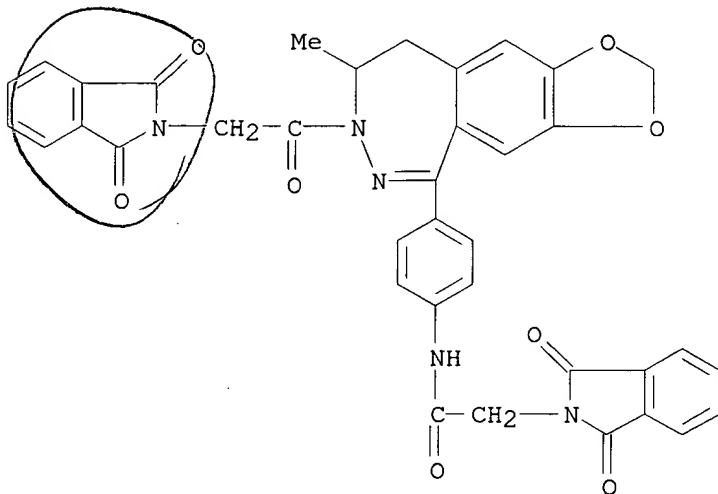


RN 143692-12-0 CAPLUS
CN Acetamide, N-[4-[7-[2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-1-oxopropyl]-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



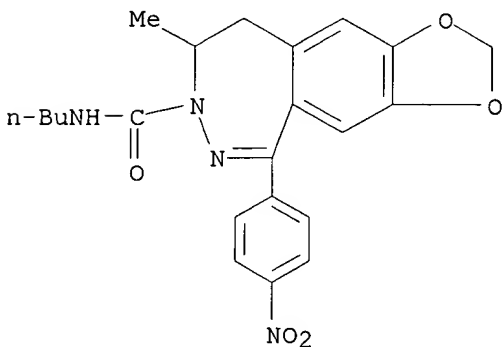
RN 143692-13-1 CAPLUS

CN 2H-Isoindole-2-acetamide, N-[4-[7-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)acetyl]-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]-1,3-dihydro-1,3-dioxo- (9CI) (CA INDEX NAME)



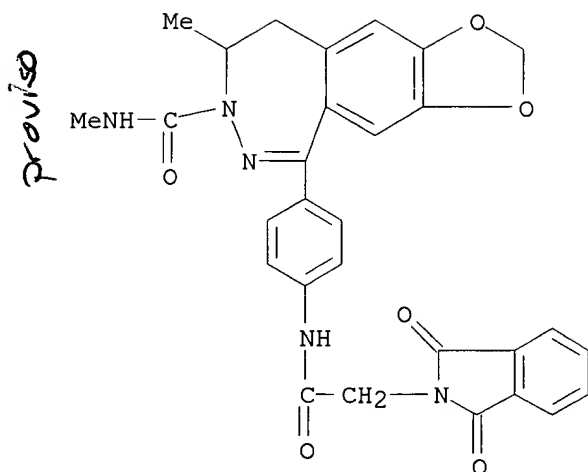
RN 143692-51-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, N-butyl-8,9-dihydro-8-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 143692-52-8 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-[4-[[[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)acetyl]amino]phenyl]-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)

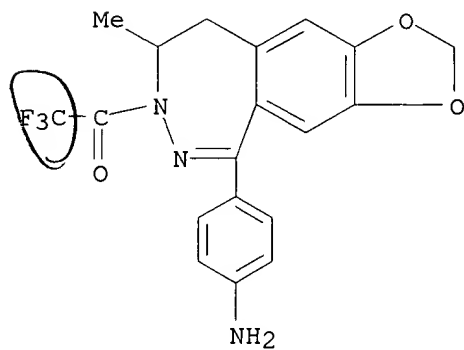


IT 143691-38-7P 143691-45-6P 143691-57-0P
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RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as muscle relaxant and anticonvulsant)

RN 143691-38-7 CAPLUS

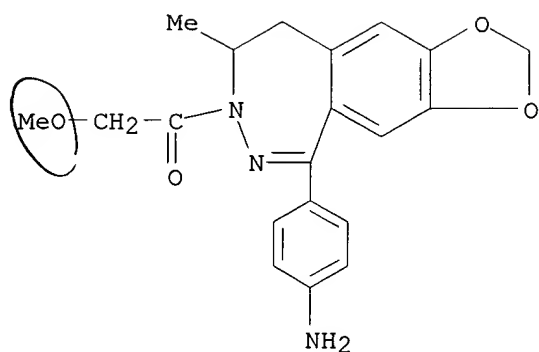
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-(trifluoroacetyl)- (9CI) (CA INDEX NAME)



RN 143691-45-6 CAPLUS

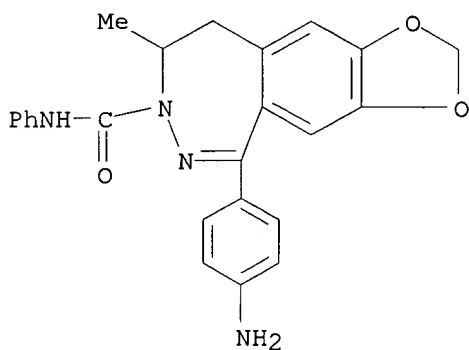
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-7-(methoxyacetyl)-8-methyl- (9CI) (CA INDEX NAME)

09/485,441

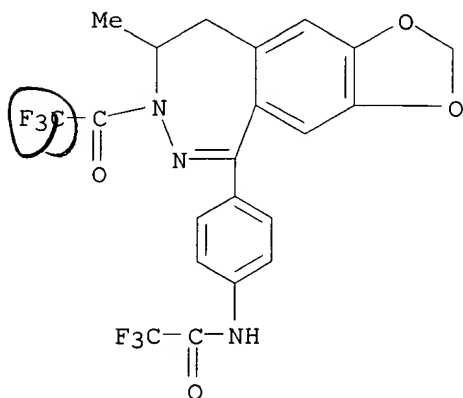


RN 143691-57-0 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-8,9-dihydro-8-methyl-N-phenyl- (9CI) (CA INDEX NAME)

pravisio

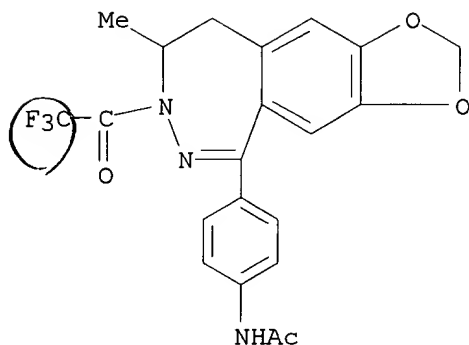


RN 143691-62-7 CAPLUS
CN Acetamide, N-[4-[8,9-dihydro-8-methyl-7-(trifluoroacetyl)-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



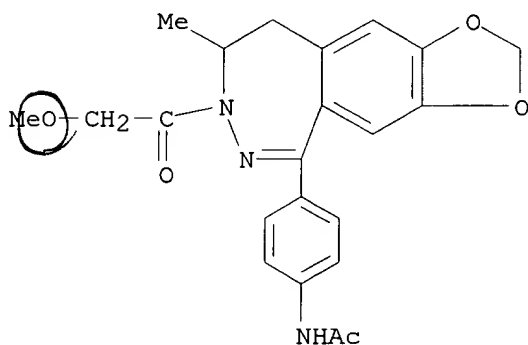
RN 143691-65-0 CAPLUS
CN Acetamide, N-[4-[8,9-dihydro-8-methyl-7-(trifluoroacetyl)-7H-1,3-

dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



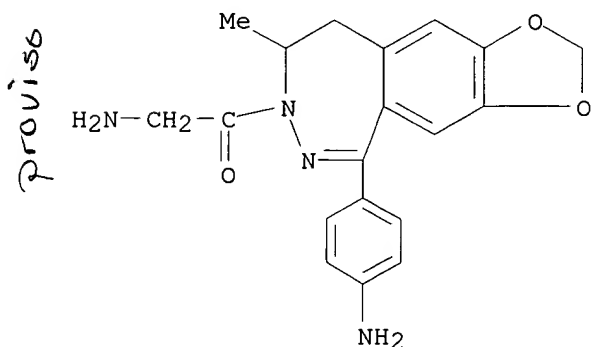
RN 143691-71-8 CAPLUS

CN Acetamide, N-[4-[8,9-dihydro-7-(methoxyacetyl)-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 143691-88-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(aminoacetyl)-5-(4-aminophenyl)-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)



RN 143691-89-8 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(aminoacetyl)-5-(4-aminophenyl)-8,9-dihydro-8-methyl-, (2E)-2-butenedioate (1:1) (9CI) (CA

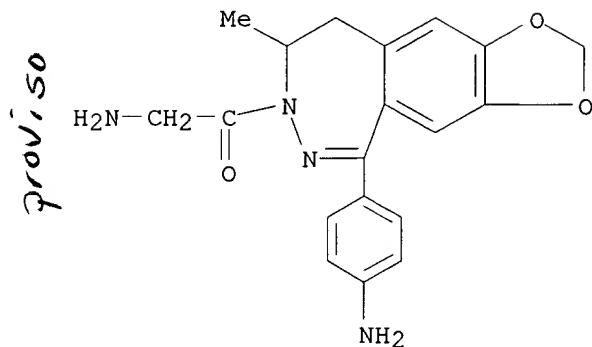
09/485,441

INDEX NAME)

CM 1

CRN 143691-88-7

CMF C19 H20 N4 O3



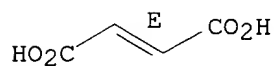
CM 2

CRN 110-17-8

CMF C4 H4 O4

CDES 2:E

Double bond geometry as shown.



RN 143691-91-2 CAPLUS

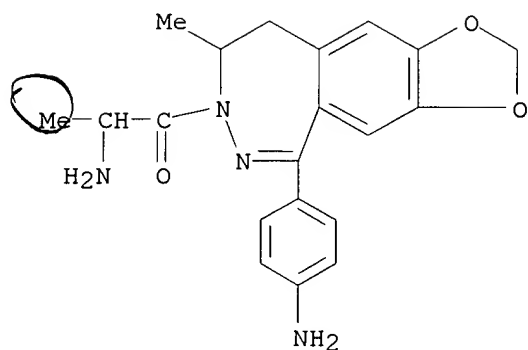
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 7-(2-amino-1-oxopropyl)-5-(4-aminophenyl)-8,9-dihydro-8-methyl-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 143691-90-1

CMF C20 H22 N4 O3

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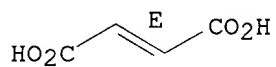
CM 2

CRN 110-17-8

CMF C4 H4 O4

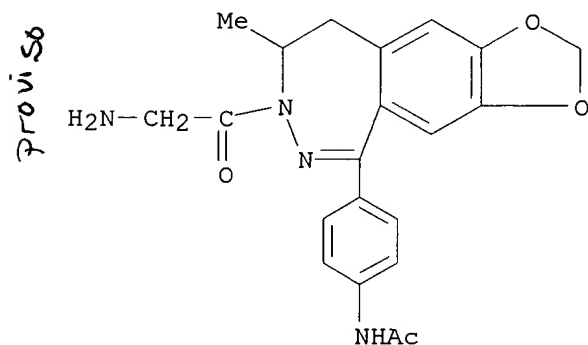
CDES 2:E

Double bond geometry as shown.



RN 143691-93-4 CAPLUS

CN Acetamide, N-[4-[7-(aminoacetyl)-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)

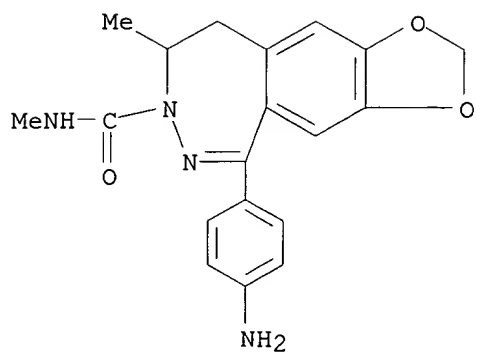


RN 143692-18-6 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)

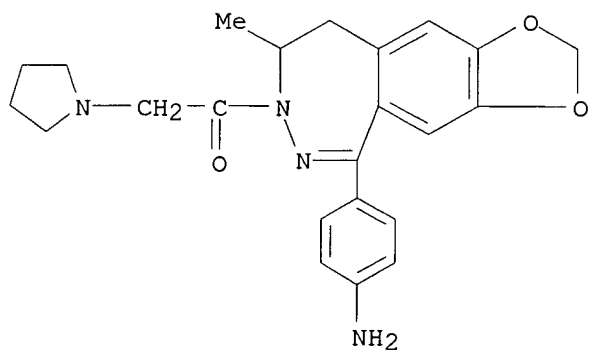
09/485,441

proviso



RN 143692-19-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-(1-pyrrolidinylacetyl)- (9CI) (CA INDEX NAME)



RN 143692-21-1 CAPLUS

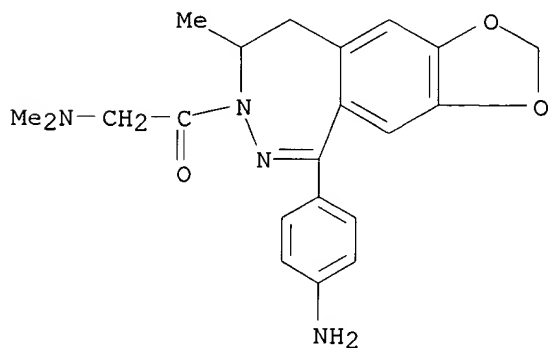
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-7-[(dimethylamino)acetyl]-8,9-dihydro-8-methyl-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 143692-20-0

CMF C21 H24 N4 O3

proviso



09/485,441

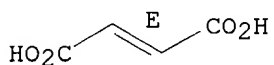
CM 2

CRN 110-17-8

CMF C4 H4 O4

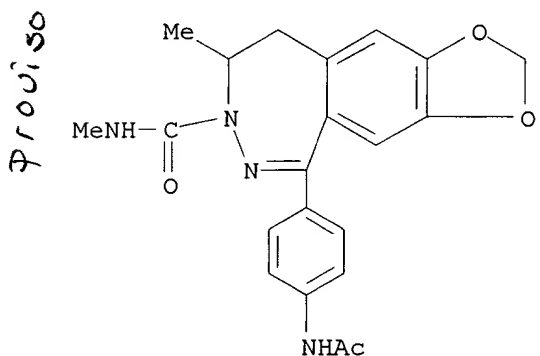
CDES 2:E

Double bond geometry as shown.



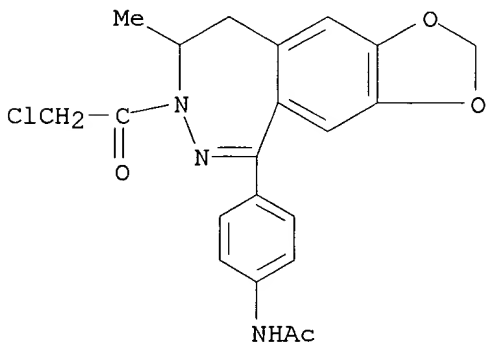
RN 143692-26-6 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-[4-(acetylamino)phenyl]-8,9-dihydro-N,8-dimethyl- (9CI) (CA INDEX NAME)



RN 143692-32-4 CAPLUS

CN Acetamide, N-[4-[7-(chloroacetyl)-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)

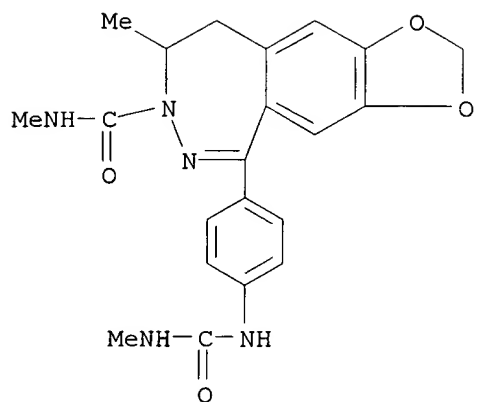


RN 143692-35-7 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
8,9-dihydro-N,8-dimethyl-5-[4-[(methyamino) carbonyl]amino]phenyl]- (9CI)
(CA INDEX NAME)

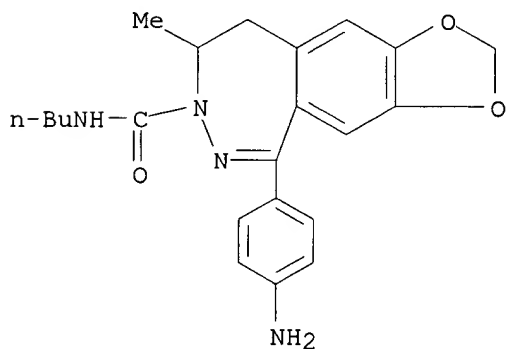
09/485,441

proviso



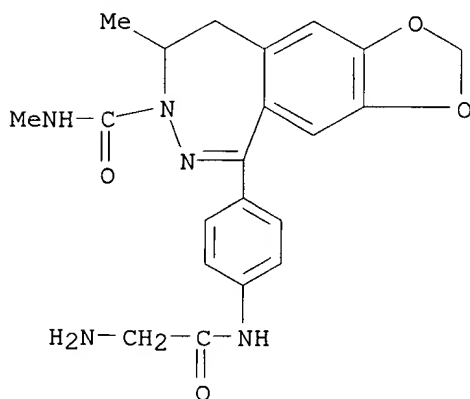
RN 143692-36-8 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-(4-aminophenyl)-N-butyl-8,9-dihydro-8-methyl- (9CI) (CA INDEX NAME)

proviso



RN 143692-37-9 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide,
5-[4-[(aminoacetyl)amino]phenyl]-8,9-dihydro-N,8-dimethyl- (9CI) (CA
INDEX NAME)

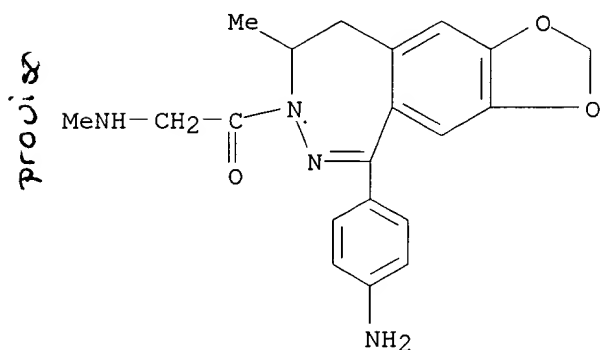
proviso



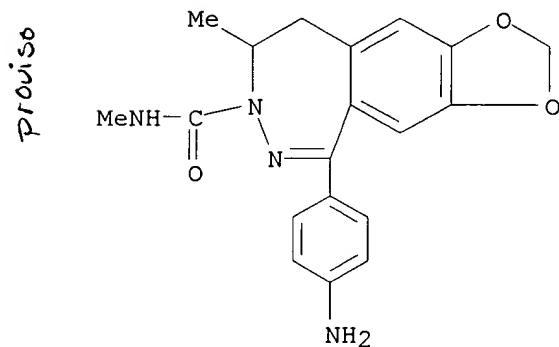
RN 143692-38-0 CAPLUS

09/485,441

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 5-(4-aminophenyl)-8,9-dihydro-8-methyl-7-[(methylamino)acetyl]- (9CI) (CA INDEX NAME)

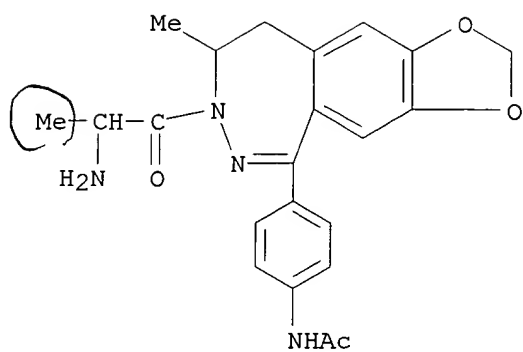


RN 143692-48-2 CAPLUS
CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine-7-carboxamide, 5-(4-aminophenyl)-8,9-dihydro-N,8-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 143715-46-2 CAPLUS
CN Acetamide, N-[4-[7-(2-amino-1-oxopropyl)-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-h][2,3]benzodiazepin-5-yl]phenyl]- (9CI) (CA INDEX NAME)



IT **143692-50-6**

RL: RCT (Reactant)

(reaction of, in prepn. of muscle relaxant and anticonvulsant)

RN 143692-50-6 CAPLUS

CN 7H-1,3-Dioxolo[4,5-h][2,3]benzodiazepine, 8,9-dihydro-8-methyl-5-(4-nitrophenyl)-7-(1-pyrrolidinylacetyl)- (9CI) (CA INDEX NAME)

